# PROJECTED DEFENSE PURCHASES: DETAIL BY INDUSTRY AND STATE

## Calendar Years 1997 through 2003



June 1997

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#### **FOREWORD**

Projected Defense Purchases: Detail by Industry and State is issued by the Office of the Secretary of Defense (OSD). The estimates presented in the report are produced by the Economic and Manpower Analysis Division, Office of the Director for Program Analysis and Evaluation, Office of the Secretary of Defense.

The report provides projections of direct and indirect (or defense-related) purchases from 50 major manufacturing industries, and estimates of direct and indirect defense spending in each state. An introduction presents a brief overview of the definitions, budgetary concepts, and expenditure categories used in developing the estimates, and offers some guidelines for interpreting them. The tabular material is divided into three sections:

Section I: Summary Tables – Industry Expenditures and Employment,
Individual States and Entire United States

Section II: Projections for Selected Industries

Section III: Individual State Projections

Descriptions of table formats accompany the projections.

Additional copies of this report may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. A feedback form for comments is at the end of the report.

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#### Reader's Note

With this edition of *Projected Defense Purchases: Detail by Industry and State*, the Department of Defense inaugurates a new version of the input-output model used to estimate defense and defense-related expenditures. The revisions to the model affect the estimates for specific industries, in large part because the industry definitions have changed as described below. In particular:

- The input-output model now includes 320 industries and is maintained by Interindustry Forecasting at the University of Maryland (INFORUM), replacing the 429-industry model that was maintained by DRI/McGraw-Hill. Because fewer industries are represented in the model, the definitions of some industries have changed. (The differences are largest in the agriculture and service sectors.)
- The model now reflects the standard industrial classification (SIC) system promulgated by the Office of Management and Budget in 1987, rather than the 1982 SIC system, which underlay previous projections. This change also affects the definition of industries, particularly in the electronics industry.

Both of these modifications affect projections for individual industries. For example, one of the largest industrial sectors in the earlier projections was the Radio and Television Communications Equipment sector, which included electronic sensors used in many defense applications. Because the 1987 industrial classification system contains more detail on electronics sectors, it is now possible to break out purchases of sensors from the remainder of radio and television communications equipment, and to produce projections for this individual industry.

In addition, the industries from which research and development purchases are made can now be better identified. Whereas funding for bench research and basic exploration was formerly allocated to the major weapons-producing sectors (e.g., aircraft, missiles, radio and TV equipment, etc.), it now is allocated to the research laboratory, engineering, and architectural services industries.

The restructuring was so substantial that the model has been renamed. It is now called the Defense Employment and Purchases Projection System, or DEPPS. The projections presented in this report should not be compared with estimates generated by the former model, for states or for industries.

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#### INTRODUCTION AND HIGHLIGHTS

This report presents estimates of defense purchases during calendar years 1997-2003 from 50 major industries that are major defense suppliers. The report also provides projections of defense-related employment and of defense and defense-related spending for each of the 50 states and the District of Columbia during 1997-2003. The estimates are based on the President's budget submission of February 1997, and on the geographic distribution of the major components of defense spending in the recent past. A description of the model and data used to generate the estimates may found in supporting documentation.<sup>1</sup>

The figures reported here are projections; they do not necessarily reflect what actual defense expenditures will prove to be in various industries or states in future years. Purchases from particular industries will depend upon the size and composition of the defense budget enacted by the Congress; the location of purchases will be determined not only by the level of defense spending, but also by the location of industries and by competition among firms within industries, both for prime contracts and for subcontracts.<sup>2</sup> The projections are therefore intended to serve as benchmarks: they describe the future pattern of defense and defense-related expenditures, assuming that each state's shares of the various components of defense activity remain as they were in the recent past.

Since the last set of projections was published, the input-output model used to produce them has been completely rebuilt, and the definitions of industries for which projections are reported have changed. (The new projections divide the economy into 320 industries, rather than the 429 industries employed in the previous model.) The restructured model will produce more accurate and useful projections; the changes are significant enough to render comparisons with past projections inappropriate, for states as well as industries.

Forthcoming from Economic and Manpower Analysis Division, Office of the Director, Program Analysis and Evaluation, Office of the Secretary of Defense, Room 2D311, Pentagon, Washington, D.C. 20301-1800, telephone number (703) 697-2999.

The Directorate for Information Operations and Reports in the Washington Headquarters Services publishes comprehensive data on prime contract awards and personnel expenditures, by state, in a volume entitled Atlas/State Data Abstract for the United States. The edition covering fiscal year 1996 is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

#### **Definitions and Coverage**

The estimates presented in the following sections consider both "direct" and "indirect" defense expenditures. Direct defense expenditures are those that the Department of Defense (DoD) itself makes. Examples include purchases of goods and services, as well as military and civilian pay.

Indirect (or defense-related) expenditures, in contrast, represent purchases — generated throughout the economy — of items used to produce goods bought by DoD. That is, they reflect the costs of materials, tools, and parts that prime contractors buy from their suppliers in order to perform work for which DoD has contracted. Those sales, in turn, trigger subsequent rounds of transactions, as subcontractors purchase goods and services from their major suppliers and those firms place orders with companies at lower tiers of the production chain. It is to this sequence of purchases — of goods and services from subcontractors and lower-tier suppliers —that the term "indirect defense purchases" applies.

"Indirect defense purchases resulting from direct pay," shown in the state-level tables in Section III, refer to the production of goods and services consumed by DoD's civilian and military employees. Estimates of these expenditures are included in the statewide tables because the concept has been of interest to planning agencies and others concerned with local economic development. The methods used to generate these estimates are viewed as experimental, however, and are still under development. Indirect defense purchases resulting from direct pay are *not* included in the industry estimates reported in Section II.

The employment estimates include DoD civilian employment and employment resulting from direct and indirect DoD purchases of goods and services. Employment generated by indirect purchases resulting from direct pay (i.e., by personal consumption expenditures) is *not* included in the estimates.

Budget Concept Employed. The DEPPS projections are expressed in terms of outlays. Outlays represent disbursements of funds made during the course of a year. In contrast, budget authority is the amount of money that Congress authorizes DoD to obligate in any given year. Budget authority differs from outlays in that contractual obligations (which must be within the limits set by budget authority) often call for payments to be spread over a period of years, as work is completed. (Budget authority for RDT&E and procurement projects, in particular, tends to be disbursed over several years.) During periods of budget growth, therefore, budget authority tends to exceed outlays in any given year.

Coverage. The federal budget is divided into a number of sections (called "functional categories"), each containing programs serving a common purpose. National security-related programs are grouped into Functional Category 050 (National Defense). This category includes all of the Defense Department's military programs plus national security programs administered by other federal departments, such as the Department of Energy. It excludes nonmilitary

programs managed by the Department of Defense (for example, highway bridge inspection projects conducted by the Army Corps of Engineers).

The DEPPS projections are based on a narrower budget grouping, Functional Category 051 (Department of Defense, Military). This category includes all of the Defense Department's military programs, but excludes national security programs administered by other agencies and DoD programs serving civil functions (principally public works projects of the U.S. Army Corps of Engineers). The projections also include disbursements of military retirement pay.

The defense budget (defined here to include only those programs falling within Functional Category 051) is partitioned into five major accounts: military personnel; operations and maintenance (O&M); procurement; research, development, test, and evaluation (RDT&E); and military construction. The titles of these accounts are reasonably descriptive of the types of expenses they cover:

- The *military personnel* account covers the pay of active-duty service members and reservists as well as some other personnel-related expenses, such as permanent change-of-station travel and purchases of military uniforms. Also included in this account is DoD's share of the government's annual payments into the Military Retirement Fund (see below).
- The O&M account funds the day-to-day operations of the defense establishment. Money from this account goes to purchase fuel and other consumable items and to pay all but a small share of DoD's civilian work force.
- The *procurement* account covers purchases of weapons and equipment, and other military capital goods.
- The *RDT&E* account pays for the development and testing of new military systems, and for other research activities and associated civilian pay.
- The *military construction* account covers the cost of constructing military facilities and of providing housing for military personnel and their dependents.

The DEPPS projections include disbursements of military retirement pay from the Military Retirement Fund (Functional Category 602 in the *Budget of the United States Government*). This trust fund receives payments from the military personnel account of the defense budget (i.e., from Functional Category 051) as well as from the general fund of the federal budget; the balance in the Military Retirement Fund is invested in U.S. government securities and earns interest. Currently, annual disbursements from the Military Retirement Fund are larger than DoD's annual payments into it.

The DEPPS projections include all outlays from the DoD military personnel account *except* payments into the Military Retirement Fund. Military pay and annuity payments to military retirees have different geographical patterns; accordingly, the projections use two different, historically-based distribution rules — one for military pay and one for retirement pay. Because the DEPPS projections include disbursements of retirement pay, the summations across states of direct defense purchases slightly exceed outlays from Category 051.

#### **Highlights of the Projections**

The composition of projected defense purchases is quite different from the composition of purchases in the nondefense economy. Figure 1 presents information on the composition of projected defense and nondefense final purchases in 1998, excluding salaries. A large proportion of defense purchases — 55 percent — are made from manufacturing industries. In contrast, only about 34 percent of nondefense final purchases are made from the manufacturing sector of the economy. Services make up about 40 percent of defense final purchases, but about 60 percent of nondefense final purchases. (These are non-labor purchases; if DoD personnel costs are included, the share of purchases from manufacturing industries is roughly equal to the economywide share.)

Figure 2 presents information on the composition of estimated defense and nondefense indirect purchases — the sales of tools, materials, and supplies used as intermediate goods in the production process. Indirect defense purchases more nearly resemble their nondefense counterparts than do direct defense purchases; manufacturing accounts for about 41 percent of projected defense indirect purchases, and for about 40 percent of projected nondefense indirect purchases. Services account for half of projected defense and nondefense indirect purchases.

The first table in Section I of this report lists the 50 manufacturing industries with the largest (direct plus indirect) projected defense production. While some of these industries are armaments or defense-oriented (shipbuilding, tanks and tank components, aircraft, and guided missiles, for example), a significant share of defense purchases are made directly or indirectly from industries not so obviously oriented toward defense activities (e.g., electronics, blast furnaces and steel mills, motor vehicle parts, industrial controls, and telephone and telegraph equipment).

**Defense-Related Employment.** Defense-related civilian employment (including the civilian work force of the Department of Defense) represents about 2 percent of projected total U.S. civilian employment. The composition of defense-related civilian employment in 1998 differs somewhat from that of nondefense employment. The differences reflect the manufacturing intensity of defense purchases, as well as specific employment patterns of the individual industries from which defense purchases are made.

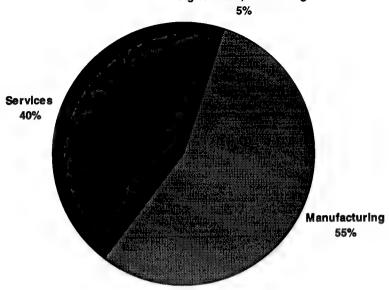
Occupations primarily associated with manufacturing industries (e.g., precision production, craft, and repair) account for a large share of defense-related employment, while

Figure 1.

Composition of Defense and Non-Defense Purchases for 1998



Construction,
Agriculture, and Mining



### **Direct Nondefense Purchases**

Construction,
Agriculture, and Mining

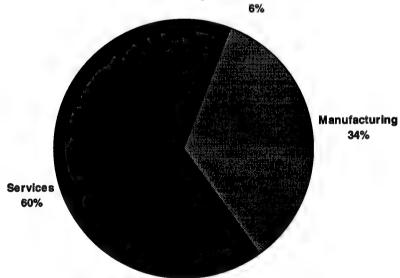
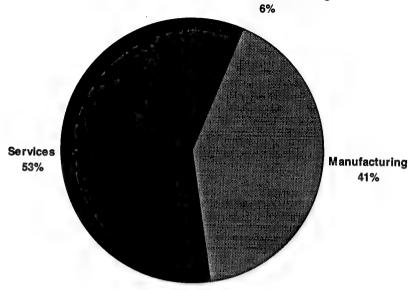


Figure 2.

Composition of Defense and Non-Defense Purchases for 1998

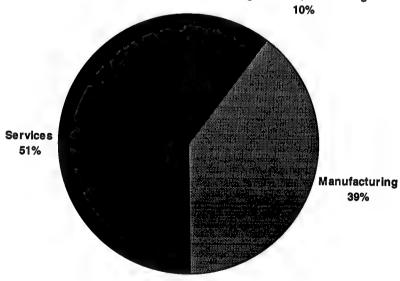
## **Indirect Defense Purchases**

Construction,
Agriculture, and Mining



## **Indirect Nondefense Purchases**

Construction,
Agriculture, and Mining



service and agriculture workers account for a large proportion of nondefense employment (see Figure 3). Engineering workers also account for a somewhat larger share of defense-related employment (7 percent) than they do of nondefense employment (1 percent). More detailed tabulations of defense-related employment (including a breakout of engineering and scientific personnel by specialty) are provided in Section I.

Defense Expenditures by State. Table 1 presents estimates of direct, indirect, and total (direct plus indirect) per capita defense expenditures in 1998 for each of the nine U.S. census divisions, and for the United States as a whole. For each region and each expenditure category, the table provides both an estimate for the census region and a range of estimates corresponding to the upper and lower bounds of the estimates for the individual states within the region.

The geographic distribution of defense expenditures reflects both the distribution of military personnel and DoD civilian employees, and that of the industries that make defense goods. While New England, for example, ranks seventh among the nine regions in defense pay per capita, it ranks third in total projected defense purchases and third in total projected direct expenditures.

The dispersion within regions is large relative to the dispersion across regions. For example:

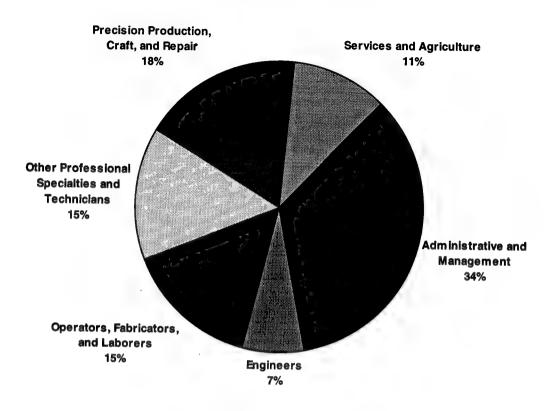
- Six of the nine regions contain one or more states in which total projected defense expenditures (direct and indirect) exceed the national average.
- All nine regions contain at least one state in which total projected defense expenditures are less than 60 percent of the national average, and at least one state in which total projected defense expenditures are greater than 60 percent of the national average. At the same time, six regions contain at least one state in which total projected defense expenditures are less than 50 percent of the national average, and seven regions contain at least one state in which total projected defense expenditures are greater than 90 percent of the national average.

The DEPPS projections describe the pattern of defense and defense-related expenditures, assuming that the geographic distribution of the various components of defense activity remains what it has been in recent years. The actual course of completion of defense contracts may produce a future geographic pattern that differs from historical distributions.

Figure 3.

Composition of Civilian Employment for 1998

### **Defense-Related Employment**



## Nondefense-Related Employment

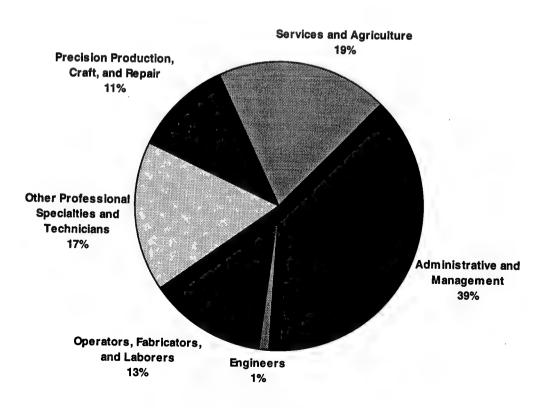


Table 1. Estimated Defense Expenditures Per Capita, 1998 (By region, in 1998 dollars)

		Direct			
Region	Pay	Purchases	Total	Indirect	Total
New England	294	851	1145	807	1952
	(163 - 503)	(145 - 1336)	(313 - 1827)	(562 - 1410)	(945 - 2605)
Mid-Atlantic	175	383	558	554	1112
	(102 - 217)	(301 - 523)	(426 - 729)	(462 - 635)	(888 - 1363)
South Atlantic	909	942	1851	975	2826
	(146 - 2641)	(79 - 3388)	(226 - 6029)	(461 - 2313)	(686 - 8342)
East North Central	161	249	410	553	963
	(87 - 243)	(112 - 408)	(198 - 560)	(467 - 633)	(687 - 1193)
West North Central	354	424	778	941	1719
	(91 - 709)	(188 - 827)	(280 - 1169)	(402 - 2784)	(682 - 3734)
East South Central	443	540	983	642	1625
	(216 - 559)	(228 - 988)	(560 - 1515)	(535 - 778)	(1096 - 2105)
West South Central	456	386	842	732	1574
	(313 - 719)	(181 - 552)	(493 - 1014)	(529 - 865)	(1022 - 1851)
Mountain	494	394	888	720	1608
	(299 - 723)	(112 - 1063)	(412 - 1660)	(476 - 853)	(939 - 2474)
Pacific	927	861	1788	895	2683
	(162 - 1982)	(58 - 2247)	(220 - 3619)	(492 - 1258)	(711 - 4877)
United States	507	589	1096	790	1886
	(87 - 2641)	(58 - 3388)	(198 - 6029)	(402 - 2784)	(682 - 8342)

The numbers in parentheses reflect the lower and upper bounds of the estimates for individual states in the regions. NOTES:

New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont

Mid-Atlantic: New Jersey, New York, Pennsylvania
South Atlantic: Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina,

South Carolina, Virginia, West Virginia
East North Central: Illinois, Indiana, Michigan, Ohio, Wisconsin
West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota

East South Central: Alabama, Kentucky, Mississippi, Tennessee West South Central: Arkansas, Louisiana, Oklahoma, Texas

Mountain: Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming

Pacific: Alaska, California, Hawaii, Oregon, Washington

#### **Limitations of the Projections**

The projections of defense purchases in Section I show direct and indirect purchases from various industries. They attempt to include all defense purchases, whether or not the purchases are made domestically.

By contrast, the state-level projections include only purchases and pay estimated to be made in the 50 states and the District of Columbia. They exclude expenditures made abroad or in U.S. territories, the pay of military personnel stationed on ships in foreign waters, and expenditures for imported goods. In order to factor out such expenditures, historical data showing the distribution of military personnel are used and an assumption is made about the level of defense imports. Specifically, it is assumed that, for the products of any given industry, imports constitute the same share of defense purchases as they do of civilian purchases. But because the Defense Department is required to channel most of its purchases to domestic firms, and because defense purchases often represent specialized products, the percentage of defense purchases accounted for by imports may be lower than this assumption suggests. To the extent that this is the case, the projections will underestimate the proportion of defense expenditures occurring in the United States.

#### **Comparisons With Previous Estimates**

The input-output model used to generate estimates for this report has been rebuilt since the document was last issued. The revisions to the model affect results for specific industries. In particular:

- The input-output model now includes 320 industries and is maintained by Interindustry Forecasting at the University of Maryland (INFORUM), replacing the 429-industry model that was maintained by DRI/McGraw-Hill. Because fewer industries are represented in the model, the definitions of some industries have changed. (The differences are largest in the agriculture and service sectors.)
- The model now reflects the standard industrial classification (SIC) system promulgated by the Office of Management and Budget in 1987, rather than the 1982 SIC system, which underlay previous projections.

Both of these changes affect projections for individual industries. For example, one of the largest industrial sectors in the earlier projections was the Radio and Television Communications Equipment sector, which included electronic sensors used in many defense applications. Because the 1987 industrial classification system contains more detail on electronics sectors, it is now possible to break out purchases of sensors from the remainder of radio and television communications equipment, and to produce projections for this individual industry.

In addition, the industries from which R&D purchases are made can now be better identified. Whereas funding for bench research and basic exploration was formerly allocated to the major weapons-producing sectors (e.g., aircraft, missiles, radio and TV equipment, etc.), it now is allocated to the research laboratory, engineering, and architectural services industries.

Given the significance of these changes, the DEPPS projections should not be compared with estimates generated by the former model, for states or for industries.

#### SECTION I: SUMMARY TABLES – Industry Expenditures and Employment, Individual States and Entire United States

The summary tables that follow provide an overview of estimated defense expenditures and employment. The first table presents estimates of total defense purchases from the 50 manufacturing industries leading in defense production in 1998. The estimates shown include both direct and indirect purchases. The second table presents estimates of defense-related employment by major occupational category, while the third table provides more detailed estimates of defense-related employment of engineers and scientists.

The remaining five tables present state-level information:

- The first three state-level tables present estimates of *direct* defense expenditures, first in the aggregate and then for selected budget accounts. The first table shows outlays (for purchases and pay) projected to be made in each state during each year of the forecast period. (The estimates assume that state shares of the underlying components of pay and purchases remain at recent levels.) The next two tables break out the statewide estimates by budget category, the first showing outlays arising from the procurement and RDT&E accounts and the second showing outlays resulting from the remaining accounts.
- The last two state-level tables present estimates of *indirect* defense expenditures. The first table shows indirect expenditures arising from purchases made by the Department of Defense; the second identifies estimated expenditures arising from the wages and salaries of DoD personnel and from military retirement pay.

## Projected Defense Purchases from Fifty Manufacturing Industries Leading in Defense Production in 1998

Rounded to Millions of 1998 Dollars

Ind#	Supplying Industry	1997	1998	1999	2000	2001	2002	2003
237	Aircraft and Missile Parts and Auxiliary Equipment, n.e.c.	10,663	10,398	10,683	10,852	11,169	11,449	11,861
235	Aircraft	10,684	9,892	10,188	10,540	11,223	11,793	12,289
21	Guided Missiles and Space Vehicles	9,404	8,701	8,536	8,352	8,330	8,376	8,522
220	Radio and TV Broadcasting and Communication Equipment	8,223	7,929	7,866	7,742	7,769	7,852	8,086
110	Petroleum Refining Except Fuel Oil	7,535	7,278	7,147	7,073	6,631	6,300	6,708
238	Ship Building and Repairing	7,364	7,112	7,050	7,349	7,374	7,638	7,752
236	Aircraft and Missile Engines, Propulsion Units, and Parts	6,897	6,678	6,901	6,883	6,903	7,011	7,208
246	Search and Navigation Equipment	3,627	3,456	3,466	3,509	3,549	3,544	3,623
198	Electronic Computers	3,540	3,451	3,393	3,350	3,338	3,276	3,305
222	Semiconductors and Related Devices	3,366	3,431	3,590	3,735	3,917	4,142	4,482
111	Fuel Oil	3,400	3,259	3,183	3,138	2,877	2,653	2,757
22	Ammunition, Except Small Arms	3,347	3,248	3,408	3,526	3,601	3,622	3,667
223	Electronic Components, n.e.c.	3,196	3,105	3,127	3,123	3,155	3,204	3,330
118	Miscellaneous Plastic Products	1,987	1,916	1,935	1,964	1,977	2,031	2,129
133	Steel Mills, Blast Furnaces, and Rolling and Finishing Mills	1,857	1,727	1,698	1,695	1,678	1,682	1,687
95	Industrial Inorganic Chemicals	1,543	1,513	1,544	1,537	1,538	1,591	1,699
249	Surgical and Medical Instruments	1,513	1,434	1,445	1,435	1,335	1,375	1,395
174	Industrial Trucks, Tractors, Trailers and Stackers	1,378	1,329	1,383	1,395	1,382	1,373	1,378
248	Measuring Devices and Environmental Controls	1,262	1,233	1,269	1,277	1,290	1,322	1,383
90	Commercial Printing	1,231	1,188	1,187	1,188	1,174	1,189	1,231
233	Motor Vehicles and Passenger Car Bodies	1,309	1,180	1,169	1,252	1,335	1,373	1,398
151	Fabricated Plate Work (Boiler Shops)	1,032	1,024	1,027	1,019	984	1,000	958
96	Industrial Organic Chemicals	1,061	1,008	1,001	998	981	996	1,032
142	Other Nonferrous Rolling and Drawing, and Nonferrous Wire	1,064	997	1,006	1,018	1,036	1,060	1,096
59	Apparel	1,098	977	950	951	690	816	831
23	Tanks and Tank Components	1,012	901	885	957	1,033	1,067	1,081
234	Motor Vehicle Parts and Accessories	944	888	914	1,001	1,057	1,086	1,104
199	Computer Peripheral Equipment	837	822	814	808	809	797	808
25	Small Arms Ammunition	812	817	863	904	933	955	1,007
210	Motors and Generators	802	746	754	754	749	752	760
141	Aluminum Rolling and Drawing Products	779	727	726	735	750	763	781
177	Special Dies, Jigs, Molds and Cutting Tools	726	659	666	676	690	704	716
102	Plastics Materials and Resins	670	637	638	643	639	652	677
230	Electrical Machinery, Equipment and Supplies, n.e.c.	638	622	620	607	609	619	644
163	Pipe, Valves, and Pipe Fittings	638	615	621	637	636	655	677
86	Newspaper Publishing and Printing	658	606	588	573	552	548	550
197	Industrial and Commercial Machinery, n.e.c.	612	585	594	607	613	630	649
158	Hardware, n.e.c.	629	581	578	591	602	615	627
159	Metal Plating, Polishing, and Coating	583	565	575	587	600	618	646
78	Products from Paper Mills, Including Building Paper	579	553	546	542	528	531	547
164	Fabricated Metal Products, n.e.c.	564	538	544	550	551	550	561
153	Screw Machine Products, Bolts, and Nuts	565	532	539	552	567	583	603
175	Machine Tools, Metal Cutting Types	610	530	531	515	487	435	382
253	Laboratory and Optical Instruments	547	527	530	530	536	541	549
53	Broadwoven Fabric Mills	579	513	505	504	433	457	468
61	Miscellaneous Fabricated Textile Products	530	492	488	493	465	468	488
211	Relays and Industrial Controls	502	485	484	484	489	506	539
145		477	460	475	481	490	502	518
255	Photographic Equipment and Supplies	459	458	463	466	481	522	590
87	Periodical Publishing and Printing	447	432	437	443	443	455	475

Projected Defense and Defense-Related Employment by Occupational Category

Rounded to Thousands of Workers

Occupational Category	1997	1998	1999	2000	2001	2002	2003
Administrative Support (including Clerical)	511	487	475	465	451	452	455
Agriculture, Forestry, Fishing and Related	22	21	20	20	19	19	19
Engineers	190	182	179	176	174	174	175
Management Support	183	176	172	170	167	168	169
Managerial and Administrative	147	139	137	135	131	133	135
Marketing and Sales	107	103	101	100	96	76	66
Operators, Fabricators, and Laborers	418	394	386	381	360	367	370
Other Professional Specialties	287	277	273	269	566	267	271
Precision Production, Craft, and Repair	207	480	468	460	450	451	453
Service	273	262	259	257	245	251	256
Technicians and Related Support	113	108	106	105	103	103	104
Total All Categories:	2,758	2,629	2,576	2,537	2,461	2,480	2,507

Projected Defense and Defense-Related Employment of Engineers and Scientists

Rounded to Thousands of Workers

Occupational Category	1997	1998	1999	2000	2001	2002	2003
Aeronautical and Astronautical Engineers	19	18	18	17	17	17	17
Chemical Engineers	4	4	3	3	3	3	33
Civil Engineers (Including Traffic Engineers)	26	25	24	23	23	23	23
Electrical and Electronics Engineers	69	99	65	63	62	62	62
Industrial Engineers (Except Safety Engineers)	12	12	12	12	12	12	12
Mechanical Engineers	36	34	34	33	32	32	32
Metallurgists and Metallurgical, Ceramic, and Materials Engineers	1	-	1		-	_	
Other Engineers	24	23	23	23	23	23	*
Total Engineers	190	182	179	176	174	174	175
Architects and Surveyors	ent ent	11	10	10	10	10	10
Life Scientists	4	4	4	4	4	4	4
Computer Systems Analysts, Engineers, and Scientists	103	101	66	66	86	66	101
Mathematicians and Other Mathematical Scientists	4	4	4	4	4	· <b>4</b>	4
Operations Research Analysts	6	6	6	6	••	œ	<b>∞</b>
Chemists	9	9	9	9	9	9	9
Geologists, Geophysicists, and Oceanographers	2	2	2	2	2	2	2
Physicists and Astronomers	1	_	1	-	-	1	-
Other Physical Scientists	9 -	9	9	9	9	9	9
Total Other Professional Specialties	148	143	141	139	139	139	141
Total Engineers and Scientists:	tists: 338	326	320	315	313	313	316

## **Projections of Total Direct Expenditures, by State**

Rounded to Millions of 1998 dollars

State	1997	1998	1999	2000	2001	2002	2003
Alabama	5,312	5,108	5,034	4,982	4,818	4,839	4,904
Alaska	2,505	2,446	2,404	2,407	2,271	2,460	2,689
Arizona	4,511	4,370	4,384	4,411	4,449	4,504	4,595
Arkansas	1,286	1,251	1,240	1,238	1,201	1,207	1,218
California	42,599	40,951	40,720	40,703	40,670	40,987	42,126
Colorado	6,696	6,526	6,456	6,290	6,208	6,308	6,566
Connecticut	4,131	3,904	3,920	3,990	4,038	4,144	4,268
Delaware	816	795	795	790	770	775	782
District of Columbia	3,375	3,262	3,204	3,178	3,061	3,042	3,101
Florida	14,766	14,354	14,286	14,228	14,132	14,224	14,473
Georgia	10,418	10,063	9,982	9,839	9,667	9,691	9,838
Hawaii	3,587	3,474	3,418	3,391	3,318	3,303	3,347
Idaho	526	511	504	498	492	485	489
Illinois	4,235	4,068	4,022	3,999	3,886	3,884	3,944
Indiana	2,836	2,720	2,690	2,684	2,648	2,624	
Iowa	852	813	806	795	789	2,024 787	2,679
Kansas	2,172	2,107	2,083	2,060			803
Kentucky	2,820	2,742	2,706	2,681	2,031 2,626	2,008	2,036
Louisiana	4,026	3,887	3,832			2,609	2,638
Maine	2,342	2,258	2,238	3,856	3,772	3,755	3,816
Maryland	9,428	9,093	2,238 8,980	2,316	2,292	2,359	2,396
Massachusetts	7,933	7,572	7,544	8,909	8,780 7,530	8,805	9,034
Michigan	5,136	4,842	7,5 <del>44</del> 4,864	7,493	7,530	7,648	7,886
Minnesota	2,500	2,425	2,446	5,004 2,476	5,108	5,157	5,235
Mississippi	4,278	4,117	4,071	4,129	2,495	2,507	2,558
Missouri	6,627	6,286	6,295	6,336	4,051 6,444	4,130	4,201
Montana	425	416	412	412	405	6,548	6,718
Nebraska	1,151	1,124	1,112	1,104	1,093	403	406
Nevada	1,136	1,116	1,112	1,104	1,093	1,078	1,089
New Hampshire	784	763	758	749	744	1,091	1,093
New Jersey	6,099	5,871	5,796	5,764	5,597	746 5,768	762
New Mexico	2,322	2,251	2,220	2,192	2,157	2,137	6,057
New York	8,089	7,758	7,723	7,680	7,581	2,137 7,657	2,161
North Carolina	6,335	6,150	6,080	6,042	7,381 5,927	5,930	7,858
North Dakota	703	691	683	682	683	3,930 709	5,976
Ohio	6,676	6,367	6,304	6,287	6,222	6,205	753
Oklahoma	3,382	3,279	3,239	3,225	3,179		6,338
Oregon	747	725	717	712	703	3,161	3,207
Pennsylvania	6,642	6,348	6,274	6,183	6,068	697 5.005	700
Rhode Island	1,653	1,595	1,587	1,568	1,544	5,995	6,118
South Carolina	4,023	3,899	3,854	3,845		1,544	1,575
South Dakota	760	719	754	3,643 786	3,677 736	3,716	3,750
Tennessee	3,160	3,038	2,998	2,983		646	647
Texas	20,440	19,742	19,599	19,558	2,758	2,832	2,856
Utah	2,015	1,918	1,875		19,278	19,277	19,627
Vermont	189	1,918	1,873	1,854	1,818	1,799	1,836
Virginia	24,535	23,743	23,388	185	185	186	190
Washington	7,180	6,930	23,388 6,840	23,207	22,487	22,651	23,144
West Virginia	431	414	406	6,797	6,693	6,668	6,779
Wisconsin	1,104	1,051		403	393	393	395
Wyoming	343	336	1,044	1,036	1,007	988	985
		330	332	332	327	323	327
U.S. Total	266,038	256,373	254,207	253,370	249,897	251,389	256,970

## **Projections of Total Direct Procurement and RDT&E Expenditures, by State**

Rounded to Millions of 1998 dollars

State	1997	1998	1999	2000	2001	2002	2003
Alabama	1,281	1,213	1,199	1,168	1,155	1,161	1,177
Alaska	386	405	400	404	462	591	796
Arizona	1,567	1,484	1,524	1,569	1,636	1,706	1,783
Arkansas	110	103	104	105	107	110	113
California	17,877	16,937	17,050	17,228	17,702	18,374	19,221
Colorado	3,443	3,348	3,315	3,169	3,127	3,250	3,482
Connecticut	2,345	2,212	2,258	2,340	2,437	2,550	2,658
Delaware	287	280	285	282	279	282	285
District of Columbia	241	227	223	216	212	213	216
Florida	4,407	4,195	4,218	4,216	4,286	4,414	4,603
Georgia	3,960	3,785	3,783	3,692	3,664	3,728	3,826
Hawaii	105	98	97	95	94	95	97
Idaho	18	18	17	17	17	18	20
Illinois	621	589	597	605	620	642	671
Indiana	628	592	599	615	635	654	673
Iowa	355	340	338	334	337	344	360
Kansas	142	134	135	138	144	151	160
Kentucky	67	64	64	64	65	69	74
Louisiana	1,129	1,092	1,089	1,143	1,152	1,201	1,230
Maine	1,518	1,465	1,458	1,541	1,553	1,617	1,642
Maryland	2,482	2,366	2,365	2,355	2,389	2,471	2,602
Massachusetts	5,507	5,218	5,223	5,197	5,276	5,422	5,633
Michigan	2,690	2,525	2,585	2,756	2,907	3,003	3,059
Minnesota	1,269	1,229	1,262	1,306	1,340	1,377	1,424
Mississippi	1,683	1,616	1,611	1,697	1,722	1,797	1,839
Missouri	3,780	3,532	3,586	3,654	3,803	3,942	4,082
Montana	7	6	6	6	6	6	6
Nebraska	37	34	34	34	34	35	36
Nevada	36	. 34	34 .	33	33	33	33
New Hampshire	254	245	244	239	239	246	258
New Jersey	2,150	2,067	2,067	2,062	2,129	2,271	2,502
New Mexico	409	388	381	368	361	362	367
New York	3,845	3,663	3,693	3,708	3,779	3,889	4,058
North Carolina	404	386	384	374	372	381	399
North Dakota	79	83	82	82	93	118	157
Ohio	2,101	1,967	1,985	2,036	2,114	2,185	2,256
Oklahoma	206	191	193	197	204	210	216
Oregon	72	69	68	67	66	67	67
Pennsylvania	1,934	1,845	1,866	1,874	1,896	1,946	2,010
Rhode Island	769	742	751	750	753	767	789
South Carolina	292	277	281	288	296	305	313
South Dakota	18	17	17	17	17	18	18
Tennessee	428	405	398	384	377	377	380
Texas	5,093	4,803	4,833	4,835	4,936	5,078	5,253
Utah	402	367	358	352	352	357	367
Vermont	60	58	59	61	62	64	66
Virginia	3,533	3,387	3,347	3,323	3,345	3,496	3,720
Washington	1,370	1,277	1,263	1,251	1,265	1,294	1,339
West Virginia	21	20	19	19	19	19	19
Wisconsin	97	93	95	99	101	104	107
Wyoming	5	4	4	4	4	4	4
				=0.07=	<b>50.05</b>	00.011	06.467
U.S. Total	81,522	77,495	77,851	78,367	79,975	82,814	86,467

## Projections of Total Direct Expenditures Excluding Procurement and RDT&E, by State Rounded to Millions of 1998 dollars

State	1997	1998	1999	2000	2001	2002	2003
Alabama	4,032	3,894	3,835	3,814	3,663	3,678	3,728
Alaska	2,120	2,041	2,003	2,003	1,809	1,869	1,893
Arizona	2,944	2,886	2,860	2,842	2,813	2,797	2,813
Arkansas	1,176	1,148	1,136	1,133	1,094	1,097	1,105
California	24,722	24,014	23,670	23,475	22,968	22,612	22,905
Colorado	3,252	3,178	3,142	3,121	3,081	3,058	3,084
Connecticut	1,786	1,693	1,661	1,651	1,601	1,594	1,609
Delaware	529	515	510	508	491	493	497
District of Columbia	3,133	3,034	2,981	2,963	2,849	2,829	2,885
Florida	10,359	10,159	10,068	10,012	9,845	9,809	9,870
Georgia	6,458	6,278	6,198	6,147	6,003	5,962	6,013
Hawaii	3,482	3,375	3,321	3,297	3,224	3,208	3,250
Idaho	508	494	487	481	475	468	469
Illinois	3,614	3,479	3,425	3,394	3,265	3,242	3,273
Indiana	2,208	2,127	2,091	2,069	2,013	1,970	
Iowa	497	473	468	460	452	443	2,006
Kansas	2,030	1,973	1,947	1,922	1,887		443
Kentucky	2,753	2,679	2,642	2,617		1,857	1,876
Louisiana	2,896	2,795	2,742	2,713	2,561	2,541	2,564
Maine	824	794	780	775	2,620	2,553	2,586
Maryland	6,946	6,727	6,615		738	742	754
Massachusetts	2,425	2,354	2,320	6,554	6,391	6,334	6,432
Michigan	2,446	2,334	2,320 2,279	2,296	2,254	2,226	2,254
Minnesota	1,231	1,196	1,184	2,247 1,170	2,200	2,154	2,176
Mississippi	2,595	2,502	2,460		1,154	1,130	1,135
Missouri	2,847	2,754	2,400	2,432	2,329	2,332	2,362
Montana	418	409	406	2,682 405	2,641	2,606	2,636
Nebraska	1,114	1,090	1,078	1,070	399	397	400
Nevada	1,100	1,090	1,078		1,059	1,043	1,053
New Hampshire	530	518	513	1,069 510	1,061	1,058	1,060
New Jersey	3,950	3,803	3,729		505	500	503
New Mexico	1,913	1,864	1,839	3,702	3,468	3,497	3,554
New York	4,244	4,095	4,030	1,825	1,796	1,775	1,794
North Carolina	5,930	5,764		3,972	3,803	3,769	3,801
North Dakota	624	608	5,696 602	5,668	5,555	5,549	5,577
Ohio	4,575	4,400	4,319	600	590	591	595
Oklahoma	3,176	3,088		4,251	4,107	4,019	4,083
Oregon	674	656	3,046 649	3,029	2,975	2,951	2,991
Pennsylvania	4,708	4,503		645	636	630	633
Rhode Island	884	853	4,407	4,309	4,171	4,050	4,109
South Carolina	3,731		836	818	791	777	787
South Dakota	742	3,622 702	3,573	3,556	3,381	3,411	3,437
Tennessee	2,732	2,633	736	769	719	629	628
Texas	15,347	2,033 14,939	2,600	2,599	2,381	2,455	2,477
Utah	1,613		14,766	14,723	14,342	14,199	14,374
Vermont	128	1,551	1,517	1,502	1,465	1,441	1,469
Virginia	21,003	126	125	124	123	122	123
Washington		20,356	20,041	19,884	19,141	19,156	19,424
West Virginia	5,810	5,653	5,576	5,546	5,428	5,374	5,440
Wisconsin	410	394	387	384	374	374	376
Wyoming	1,007 339	959 221	949	937	906	884	878
	339	331	328	328	323	319	322
U.S. Total	184,516	178,878	176,356	175,003	169,922	168,575	170,503

## Projections of Indirect Defense Purchases Resulting from Direct Purchases, by State

Rounded to Millions of 1998 dollars

State	1997	1998	1999	2000	2001	2002	2003
Alabama	2,365	2,276	2,280	2,287	2,250	2,297	2,372
Alaska	500	481	476	476	461	463	481
Arizona	2,066	2,004	2,035	2,064	2,069	2,131	2,224
Arkansas	894	856	859	867	851	869	900
California	16,342	15,782	15,842	15,924	15,734	16,095	16,718
Colorado	2,021	1,942	1,943	1,944	1,915	1,950	2,026
Connecticut	4,188	4,023	3,922	3,872	3,838	4,157	4,336
Delaware	328	315	314	317	310	316	328
District of Columbia	691	671	666	665	658	682	705
Florida	4,837	4,689	4,727	4,787	4,748	4,904	5,140
Georgia	3,271	3,151	3,166	3,184	3,129	3,216	3,351
Hawaii	519	501	499	501	492	504	521
Idaho	494	478	486	491	488	497	519
Illinois	4,835	4,621	4,598	4,607	4,499	4,577	4,728
Indiana	2,794	2,670	2,671	2,690	2,659	2,710	2,798
Iowa	798	763	761	767	754	772	800
Kansas	1,369	1,323	1,331	1,343	1,318	1,343	1,395
Kentucky	1,690	1,628	1,629	1,642	1,620	1,645	1,702
Louisiana	2,249	2,169	2,149	2,148	2,047	2,032	2,122
Maine	381	367	368	371	364	372	387
Maryland	3,251	3,138	3,141	3,152	3,111	3,181	3,297
Massachusetts	4,580	4,417	4,443	4,464	4,445	4,599	4,827
Michigan	3,400	3,242	3,247	3,285	3,252	3,322	3,432
Minnesota	2,072	1,993	1,995	2,009	1,977	2,016	2,090
Mississippi	982	941	940	949	933	954	999
Missouri	2,961	2,853	2,862	2,880	2,843	2,912	3,010
Montana	232	222	222	223	216	219	227
Nebraska	625	603	600	603	591	602	624
Nevada	434	420	421	425	418	429	446
New Hampshire	497	478	480	484	482	496	515
New Jersey	3,857	3,697	3,704	3,752	3,724	3,849	4,048
New Mexico	925	905	916	925	912	929	969
New York	6,210	5,962	5,961	6,003	5,909	6,060	6,298
North Carolina	2,852	2,732	2,737	2,766	2,703	2,785	2,891
North Dakota	223	214	213	214	. 208	210	218
Ohio	5,360	5,121	5,122	5,150	5,084	5,178	5,348
Oklahoma	1,866	1,798	1,791	1,799	1,745	1,758	1,830
Oregon	1,105	1,076	1,094	1,113	1,111	1,147	1,201
Pennsylvania	5,043	4,825	4,817	4,843	4,756	4,847	5,009
Rhode Island	459	442	446	454	455	471	495
South Carolina	1,577	1,506	1,505	1,517	1,486	1,530	1,587
	1,974	1,933	2,099	2,201	2,108	1,777	1,820
South Dakota	2,031	1,946	1,950	1,966	1,927	1,979	2,049
Tennessee	11,637	11,278	11,320	11,404	11,157	11,327	11,841
Texas	1,109	1,069	1,074	1,081	1,070	1,095	1,136
Utah	264	261	268	275	279	289	305
Vermont	6,785	6,571	6,592	6,647	6,448	6,679	6,916
Virginia			3,090	3,131	3,121	3,195	3,324
Washington	3,096	3,033 585	583	586	576	585	604
West Virginia	612		1,844	1,857	1,827	1,864	1,925
Wisconsin	1,928	1,844	255	255	244	243	253
Wyoming	267	257				***	
U.S. Total	130,846	126,071	126,452	127,362	125,324	128,058	133,087

## Projections of Indirect Defense Purchases Resulting from Direct Pay, by State

Rounded to Millions of 1998 dollars

State	1997	1998	1999	2000	2001	2002	2003
Alabama	1,191	1,150	1,120	1,111	1,098	1,089	1,111
Alaska	382	369	360	357	353	351	358
Arizona	1,229	1,192	1,165	1,160	1,149	1,142	1,167
Arkansas	502	484	470	465	458	453	460
California	7,783	7,531	7,336	7,275	7,194	7,137	7,278
Colorado	1,302	1,259	1,227	1,218	1,202	1,192	1,214
Connecticut	604	583	565	558	551	545	554
Delaware	211	204	199	197	195	194	198
District of Columbia	601	580	564	558	551	546	556
Florida	4,447	4,312	4,212	4,189	4,153	4,131	4,222
Georgia	2,433	2,357	2,302	2,290	2,269	2,256	2,305
Hawaii	1,062	1,026	1,002	996	985	978	998
Idaho	250	242	237	236	234	233	238
Illinois	2,137	2,064	2,003	1,981	1,956	1,938	1,973
Indiana	1,068	1,036	1,012	1,008	1,000	996	1,020
Iowa	421	406	393	388	383	378	384
Kansas	681	658	640	635	627		
Kentucky	1,033	998	973	966		622	634
Louisiana	945	913			955	949	968
Maine	338		889	882	872	866	882
		328	320	318	316	314	321
Maryland	1,811	1,752	1,708	1,697	1,680	1,670	1,705
Massachusetts Michigan	1,088	1,048	1,016	1,003	988	977	992
Minnesota	1,330	1,284	1,247	1,233	1,217	1,202	1,220
	779	759	742	739	736	735	755
Mississippi Missouri	685	660	641	635	627	621	632
Missouri	1,250	1,210	1,178	1,168	1,155	1,147	1,170
Montana Nobresis	213	205	200	198	195	193	196
Nebraska	457	443	432	428	423	420	429
Nevada	762	742	730	726	720	717	733
New Hampshire	235	227	221	219	216	214	218
New Jersey	1,467	1,415	1,374	1,357	1,340	1,326	1,350
New Mexico	622	601	586	582	576	573	586
New York	2,554	2,454	2,371	2,331	2,289	2,254	2,282
North Carolina	2,349	2,277	2,224	2,213	2,194	2,183	2,233
North Dakota	246	237	231	230	227	226	230
Ohio	2,150	2,076	2,018	1,997	1,971	1,952	1,986
Oklahoma	1,126	1,088	1,060	1,052	1,041	1,033	1,054
Oregon	563	547	532	528	522	518	529
Pennsylvania	2,180	2,108	2,050	2,029	2,006	1,988	2,026
Rhode Island	272	263	257	255	252	251	256
South Carolina	1,221	1,182	1,154	1,147	1,136	1,129	1,153
South Dakota	180	175	170	169	167	165	169
Tennessee	986	956	932	925	916	<b>9</b> 09	928
Texas	5,178	5,010	4,886	4,853	4,802	4,768	4,868
Utah	564	546	531	527	521	517	528
Vermont	114	110	107	107	106	105	108
Virginia	4,967	4,806	4,689	4,662	4,615	4,587	4,686
Washington	1,991	1,928	1,882	1,870	1,850	1,838	1,876
West Virginia	271	261	254	251	248	245	250
Wisconsin	772	749	731	727	722	718	733
Wyoming	149	145	141	140	138	137	140
U.S. Total	67,154	64,957					

#### SECTION II: PROJECTIONS FOR SELECTED INDUSTRIES

The tables presented in this section show projected defense and defense-related purchases from the 50 manufacturing industries projected to lead in defense production in calendar year 1998. A separate table is provided for each industry.

The upper portion of each table provides projections of direct and indirect defense purchases for calendar years 1997 through 2003. The lower portion of the table shows the indirect defense purchases estimated to result from DoD purchases from each of eleven industrial groupings.

The model produces projections for 320 industries; estimates for 50 of these industries are presented in this report. Those industries are grouped into 85 sectors in the state-level tables presented in Section III. Thus, industrial sector 44, "Aerospace," appearing in the state-level tables, includes four industries: industry 235, "Aircraft"; industry 236, "Aircraft and Missile Engines, Propulsion Units, and Parts"; industry 237, "Aircraft and Missile Parts and Auxiliary Equipment, n.e.c."; and industry 21, "Guided Missiles and Space Vehicles." A crosswalk between the industries cited in Section II and the industrial sectors addressed in Section III is provided in the appendix.

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Rounded to Millions of 1998 Dollars

SUMMARY OF DEFENSE PURCHASES  Findirect Purchases  Direct Purchases  Fotal: 1,757 7,756 7,787 7,933 8,201 8,432  Total: 10,663 10,398 10,683 10,852 11,169 11,449  Aircraft Engines  Aircraft Parts  Ammunicion  Mussiles  Other Electronic Equipment  Other  Total: 2,905 2,822 2,895 2,918 2,968 3,016  Total: 10,663 10,398 10,683 10,852 11,169 11,149  Total: 1,757 7,757 7,757 7,787 7,933 8,201 8,432  TNDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR  Advicatif Parts  Advicatif Parts  Ammunicion  1 1 1 1 1 1 1 1 1 1  Tanks  Other Electronic Equipment  Other Ordinances  Other  Total: 2,905 2,822 2,895 2,918 2,901 2,901  Total: 2,905 2,822 2,895 2,918 2,908 3,016										
SUMMARY OF DEFENSE PURCHASES           7,757         7,576         7,787         7,933         8,201           2,905         2,822         2,895         2,918         2,968           Total:         10,663         10,398         10,683         11,169         11           TNDIRECT DEFENSE PURCHASING SECTOR           364         351         365         364         366           510         465         456         461         479           1         1         1         1         1           2         2         2         2         2           1,242         1,187         1,180         1,180         1,180           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           1845			1997	1998	1999	2000	2001	2002	2003	
T,757       7,576       7,787       7,933       8,201         2,905       2,822       2,895       2,918       2,968         Total:       10,663       10,398       10,683       10,852       11,169       1         INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR         364       364       366       364       366         510       465       456       461       479       479         1       1       1       1       1       1       1         2			SUMMA	RY OF DEFE	NSE PURCH	ASES				
Total:         10,663         10,398         10,683         10,852         2,918         2,968           Total:         10,663         10,398         10,683         10,852         11,169         1           TOTAL DEFENSE         FURCHASES BY PURCHASING SECTOR         366         368         368         368         368         368         368         368         368         368         368 <td>Direct Purchases</td> <td></td> <td>7,757</td> <td>7,576</td> <td>7,787</td> <td>7,933</td> <td>8,201</td> <td>8,432</td> <td>8.755</td> <td></td>	Direct Purchases		7,757	7,576	7,787	7,933	8,201	8,432	8.755	
Total:         10,663         10,398         10,683         10,852         11,169           INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR           364         351         365         364         366           510         465         456         461         479           1         1         1         1         1           2         2         2         2         2           2         2         2         2         2           1,242         1,187         1,192         1,180         1,180           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           0         0         0         0         0           1         1         1         1           1         1	Indirect Purchases		2,905	2,822	2,895	2,918	2,968	3,016	3,105	
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR   364   365   364   366   366   369   36		Total:	10,663	10,398	10,683	10,852	11,169	11,449	11,861	
364 351 365 364 366 510 465 456 461 479 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 1,242 1,187 1,192 1,180 1,180 0							į			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Aircraft Enoines		SECT DEFENSE	S PURCHASE	S BY PURCH	ASING SECT		į	!	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Aircraft Dose			100	203	304	300	3/4	387	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Alicialt Faits		010	465	456	461	479	493	513	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ammunition		1	-	1	<del></del>	1	1	<b></b>	
1,242       1,187       1,192       1,180       1,180         0       0       0       0       0         0       0       0       0       0         0       0       0       0       0         0       0       0       0       0         0       0       0       0       0         785       817       879       910       938         Total:	Communication Equipment		2	2	2	2	2	2	2	
Vehicles         0         0         0         0         0         0         0         0         1<	Missiles		1,242	1,187	1,192	1,180	1,180	1,195	1.223	
ilding       0       0       1       1         0       0       0       0       0         3lectronic Equipment       0       0       0       0         3rdinances       0       0       0       0         785       817       879       910       938         4 Octal:       2,905       2,822       2,895       2,918       2,968	Motor Vehicles		0	0	0	0	0		-	
Electronic Equipment       0       0       0       0       0         Ordinances       0       0       0       0       0         Total:       785       817       879       910       938         Total:       2,905       2,822       2,895       2,918       2,968	Shipbuilding		0	0	0		-			
Electronic Equipment         0         0         0         0           Ordinances         0         0         0         0           785         817         879         910         938           Total:         2,905         2,822         2,895         2,918         2,968	Tanks		0	0	0	0	0	0	· C	
Ordinances         0         0         0         0         0         0           785         817         879         910         938           Total:         2,905         2,822         2,895         2,918         2,968	Other Electronic Equipment		0	0	0	0	0	0	) C	
785         817         879         910         938           Total:         2,905         2,822         2,895         2,918         2,968	Other Ordinances		0	0	0	0	0	0	0	
2,905 2,822 2,895 2,918 2,968	Other		785	817	879	910	938	951	878	
		Total:	2,905	2,822	2,895	2,918	2,968	3,016	3,105	

		INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES			11,223		12,289
Aircraft Engines	IIQNI	2	-	S BY PURCH	IASING SECT	ror ,	·	c
Aircraft Parts		38	37	38	39	40	41 4	43
Ammunition		0	0	0	0	0	0	0
Communication Equipment		0	0	0	0	0	0	0
Missiles		5	5	5	5	8	S	ĸ
Motor Vehicles		0	0	0	0	0	0	0
Shipbuilding		0	0	0	0	0	0	0
Tanks		0	0	0	0	0	0	0
Other Electronic Equipment		0	0	0	0	0	0	0
Other Ordinances		0	0	0	0	0	0	. 0
		21	21	21	22	. 22	23	24

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Total:

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Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003
		SUMMAR	CY OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		9,122	8,435	8,270	8,092	8,072	8,116	8,258
Indirect Purchases		282	267	265	260	259	260	264
	Total:	9,404	8,701	8,536	8,352	8,330	8,376	8,522
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	)R		
Aircraft Engines		1	1	1	1	-	-	_
Aircraft Parts		14	14	14	15	15	16	<u>.</u> 16
Ammunition		0	0	0	0	0	0	0
Communication Equipment		0	0	0	0	0	0	0
Missiles		264	250	248	242	240	241	244
Motor Vehicles		0	0	0	0	0	0	0
Shipbuilding		0	0	0	0	0	0	0
Tanks		0	0	0	0	0	0	0
Other Electronic Equipment		0	0	0	0	0	0	0
Other Ordinances		0	0	0	0	0	0	0
Other		2	2	2	3	3	3	3
	Total:	282	267	265	260	259	260	264

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		1997	1998	1999	2000	2001	2002	2003
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		7,013	6,794	6,727	965'9	6,591	6,638	6,827
Indirect Purchases		1,210	1,135	1,139	1,146	1,177	1,214	1,258
	Total:	8,223	7,929	7,866	7,742	7,769	7,852	8,086
	INDIRECTI		PURCHASES	BY PURCHA	<b>JEFENSE PURCHASES BY PURCHASING SECTOR</b>	)R		
Aircraft Engines		0	0	0	0	0	0	0
Aircraft Parts		3	က	3	3	3	æ	3
Ammunition		0	0	0	0	0	0	0
Communication Equipment		584	522	209	512	535	561	588
Missiles		518	497	205	499	501	208	522
Motor Vehicles		0	0	0	0	0	0	0
Shipbuilding		13	13	13	14	14	15	15
Tanks		0	0	0	0	0	0	. 0
Other Electronic Equipment		1	1	-	1	_	_	1
Other Ordinances		0	0	0	0	0	0	0
Other		91	66	110	117	123	124	128
	Total:	1,210	1,135	1,139	1,146	1,177	1,214	1,258

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		Petroleu: Rounde	Petroleum Refining Except Fuel Oil Rounded to Millions of 1998 Dollars	Except Fuel of 1998 Dollar	Oil				2
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SE PURCHA	SES				
Direct Purchases Indirect Purchases		3,168 4,366	3,168 3,083 3,020 2 4,366 4,195 4,127 4	3,020	2,979	2,838	2,669	2,938	
	Total:	7,535	7,278	7,147	7,073	6,631	6,300	6,708	

		INDIREC	H	DEFENSE PURCHASES BY P	Z	CHASING SECTOR	OR			
	Aircraft Engines		37	36	37	37	37	37	œ	
	Aircraft Parts		52	52	53	54	57	× ×	26	
2	Ammunition		49	48	51	52	<b>3</b>	3 25	. Y	
29	Communication Equipment		70	89	89	9	70	71	74	
	Missiles		28	27	27	27	27	78	. 60	
	Motor Vehicles		21	20	20	22	23	24	24	
	Shipbuilding		99	58	57	59	9	62	62	
	Tanks		9	5	5	8	9	9	, <b>v</b> e	
	Other Electronic Equipment		7	7	7	9	7	7	۰ ۲	
	Other Ordinances		2	2	2	2	က	· m	· 60	
	Other		4,033	3,874	3,800	3,760	3,451	3,281	3,410	
	,	Total:	4,366	4,195	4,127	4,094	3,793	3,631	3,770	

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		Project Ship J Rounde	ted Defense Building an	Projected Defense Purchases of Ship Building and Repairing Rounded to Millions of 1998 Dollars	•				238
		1997	1998	1999	2000	2001	2002	2003	
	and the second s	SUMMAR	Y OF DEFE	MARY OF DEFENSE PURCHASES	SES				
Direct Purchases		7,321	7,070	7,008	7,307	7,337	7,598	7,711	
Indirect Purchases		4	42	42	42	37	40	41	
	Total:	7,364	7,112	7,050	7,349	7,374	7,638	7,752	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCHA	SING SECT	<b>3</b> K			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	. 0	
Shipbuilding		17	16	16	17	17	17	18	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		27	26	25	25	20	22	23	
	Total:	44	42	42	42	37	40	41	

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		1997	1998	1999	2000	2001	2002	2003
		SUMMAE	EY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			**************************************
Direct Purchases		4,115	3,917	4,018	3,957	3,944	3,988	4,088
Indirect Purchases		2,782	2,761	2,883	2,926	2,959	3,023	3,120
	Total:	6,897	6,678	6,901	6,883	6,903	7,011	7,208
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	HONI	INDIKECT DEFENSE PURCHASES BY PURCHASING SECTOR	PUKCHASE	S BY PURCH	<b>ASING SECT</b>	OK		
Aircraft Engines		780	743	763	752	751	761	781
Aircraft Parts		73	72	9/	79	83	87	91
Ammunition		ю	3	3	3	က	4	4
Communication Equipment		7	7	7	7	00	00	6
Missiles		536	515	521	519	522	531	546
Motor Vehicles		2	7	2	2	2	2	2
Shipbuilding		2	2	2	2	2	2	3
Tanks		1	-	-	1	1	1	H
Other Electronic Equipment		0	0	0	0	0	1	1
Other Ordinances		0	0	0	0	0	0	0
Other	:	1,379	1,416	1,508	1,560	1,585	1,627	1,682
	Total:	2,782	2,761	2,883	2,926	2,959	3,023	3,120

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Projected Defense Purchases of	Search and Navigation Equipment	Pounded to Williams of 1008 Dollars

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		Коппо	ed to Millions	Kounded to Millions of 1998 Dollars	ø				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	EY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		3,508	3,337	3,342	3,383	3,421	3,416	3,493	
Indirect Purchases		118	118	124	125	128	128	130	
	Total:	3,627	3,456	3,466	3,509	3,549	3,544	3,623	
	1					ļ			
	INDIR	INDIRECT DEFENSE	PURCHASE	<b>ENSE PURCHASES BY PURCHASING SECTOR</b>	<b>ASING SECT</b>	OR OR			
Aircraft Engines		7	7	7	7	7	7	7	
Aircraft Parts			-	1	1	-	-	1	
Ammunition		0	0	0	0	0	0	0	
S Communication Equipment		9	9	9	9	9	9	9	
Missiles		7	7	7	7	7	7	7	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		00	7	7	00	∞	<b>00</b>	œ	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		68	06	95	64	66	66	101	
	Total:	118	118	124	125	128	128	130	

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Projected Defense Purchases of

Electronic Computers

		Round	Rounded to Millions of 1998 Dollars	of 1998 Dollar	s				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES				
Direct Purchases		2,882	2,811	2,763	2,728	2,718	2,666	2,689	
Indirect Purchases		859	640	630	622	620	610	616	
	Total:	3,540	3,451	3,393	3,350	3,338	3,276	3,305	
1	IGNI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	æ			
Aircraft Engines		1	-	-	1	<b>—</b>	-		
Aircraft Parts		2	2	2	2	2	7	2	
Ammunition		1	1	_	1	1		-	
Communication Equipment		26	93	92	92	92	93	95	
Missiles		4	4	4	4	4	4	4	

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Total:

Other Electronic Equipment

Motor Vehicles Shipbuilding Tanks Other Ordinances

Other

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N	
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Semiconductors and Related Devices Projected Defense Purchases of

	1997	1998	1999	2000	2001	2002	2003	
	SUMMAR	XY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES				
	34	32	31	31	. 31	30	30	
	3,332	3,399	3,559	3,704	3,887	4,112	- 4,452	
Total:	3,366	3,431	3,590	3,735	3,917	4,142	4,482	
INDIRI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR			
	24	24	26	28	29	31	34	
	173	178	192	206	223	241	261	
	226	231	255	277	296	312	329	
	1,129	1,142	1,192	1,239	1,304	1,373	1,473	
	142	142	150	157	165	174	187	
	34	33	35	39	4	47	50	
	26	27	28	3.1	33	36	38	
	2		6	7	2	2	7	
	92	63	65	<i>L</i> 9	71	9/	83	
	12	11	11	12	13	14	15	
	1,500	1,547	1,603	1,648	1,706	1,806	1,979	

4,452

4,112

3,887

3,704

3,559

3,399

3,332

Total:

		Projec	Projected Defense Purchases of Fuel Oil	Purchases o	<b>~</b>				<del>-</del>
		Round	Rounded to Millions of 1998 Dollars	of 1998 Dollar					
		1997	1998	1999	2000	2001	2002	2003	
	- TABLISTON - TABL	SUMMAE	SUMMARY OF DEFENSE PURCHASES	VSE PURCHA	SES			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Direct Purchases		2,598	2,499	2,443	2,403	2,239	1,996	2,079	
Indirect Purchases		802	092	740	735	638	657	829	
	Total:	3,400	3,259	3,183	3,138	2,877	2,653	2,757	
	IIDNI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH	ASING SECT	JR C			
Aircraft Engines		11	11	11	10	10	10	11	
Aircraft Parts		13	13	13	13	14	14	14	
Ammunition		111	11	11	12	12	12	12	
Communication Equipment		17	17	16	16	16	16	17	
Missiles		7	7	7	9	9	9	7	
Motor Vehicles		9	9	9	9	7	7	7	
Shipbuilding		17	16	15	16	16	16	16	
Tanks		7	1	1	2	2	7	7	
Other Electronic Equipment		7	2	2	2	2	7	2	
Other Ordinances		1	1	1	1	1	1	1	
Other		715	<i>LL</i> 9	657	651	553	571	591	

Total:

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		1997	1998	1999	2000	2001	2002	2003
		SUMMAE	EY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		3,156	3,062	3,213	3,324	3,395	3,415	3,457
Indirect Purchases		192	186	195	202	206	207	210
	Total:	3,347	3,248	3,408	3,526	3,601	3,622	3,667
	INDIA	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	SING SECT	OR		
Aircraft Engines		0	0	0	0	0	0	0
Aircraft Parts		0	0	0	0	0	0	0
Ammunition		192	186	195	202	206	207	210
Communication Equipment		0	0	0	0	0	0	0
Missiles		0	0	0	0	0	0	0
Motor Vehicles		0	0	0	0	0	0	0
Shipbuilding		0	0	0	0	0	0	0
Tanks		0	0	0	0	0	0	0
Other Electronic Equipment		0	0	0	0	0	0	. 0
Other Ordinances		0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0
	Total	192	186	195	202	206	207	210

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Projected Defense Purchases of Electronic Components, n.e.c.

		Rounde	Rounded to Millions of 1998 Dollars	of 1998 Dollar	Ş				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	SUMMARY OF DEFENSE PURCHASES	NSE PURCHA	SES				
Direct Purchases		505	485	485	471	469	473	493	
Indirect Purchases		2,691	2,620	2,643	2,652	2,686	2,731	2,837	
	Total:	3,196	3,105	3,127	3,123	3,155	3,204	3,330	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	<b>0</b> 8			
Aircraft Engines		18	17	18	18	18	19	19	
Aircraft Parts		189	185	191	197	205	212	222	
Ammunition		26	95	100	105	108	110	113	
2 Communication Equipment		1,377	1,331	1,331	1,331	1,347	1,364	1,411	
Missiles		310	295	297	294	295	299	306	
Motor Vehicles		7	9	7	7	<b>∞</b>	œ	6	
Shipbuilding		10	10	10	10	11	11	11	
Tanks		0	0	0	0	0	1	1	
Other Electronic Equipment		55	53	53	52	53	54	58	
Other Ordinances			1	-	1		7	1	
Other		627	979	634	989	640	652	685	
	Total:	2,691	2,620	2,643	2,652	2,686	2,731	2,837	

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Projected Defense Purchases of Miscellaneous Plastic Products

		1997	1998	1999	2000	2001	2002	2003	
		SUMMA	SUMMARY OF DEFENSE PURCHASES	NSE PURCHA	SES				Access of the second
Direct Purchases		43	40	40	39	39	41	47	
Indirect Purchases		1,944	1,875	1,895	1,925	1,938	1,990	2,081	
	Total:	1,987	1,916	1,935	1,964	1,977	2,031	2,129	
	RIQUI	INDIRECT DEFENSE	PURCHASE	S BY PURCH	FENSE PURCHASES BY PURCHASING SECTOR	OR			
Aircraft Engines		29	29	30	30	30	31	32	
Aircraft Parts		59	28	09	62	99	89	72	
Ammunition		54	54	58	61	63	65	29	
Communication Equipment		186	182	184	187	192	197	207	
Missiles		88	84	85	85	98	87	06	
Motor Vehicles		71	99	<i>L</i> 9	74	80	83	85	
Shipbuilding		37	36	36	39	39	41	42	
Tanks		<b>∞</b>	7	7	7	∞	00	6	
Other Electronic Equipment		89	99	<i>L</i> 9	65	99	<i>L</i> 9	72	
Other Ordinances		2	-	2	2	2	2	2	
Other		1,343	1,292	1,300	1,313	1,306	1,339	1,404	
	Total:	1,944	1,875	1,895	1,925	1,938	1,990	2,081	

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		19	18	18	17	17	16	16	
Indirect Purchases		1,838	1,709	1,680	1,678	1,661	1,666	1,670	
	Total:	1,857	1,727	1,698	1,695	1,678	1,682	1,687	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH.	ASING SECT	JR.			
Aircraft Engines		54	51	51	49	48	47	48	
Aircraft Parts		74	20	70	70	71.	72	73	
Ammunition		131	125	128	129	130	128	128	
Communication Equipment		127	119	116	114	113	112	113	
		25	24	23	23	22	22	22	
Motor Vehicles		85	9/	9/	82	98	87	87	
Shiobuilding		443	418	405	413	408	415	413	
Tanks		24	21	20	22	22	23	23	
Other Electronic Equipment		9	9	9	5	2	5	9	
Other Ordinances		111	6	10	10	11	12	12	
Other		857	790	775	761	744	743	746	
	Total:	1,838	1,709	1,680	1,678	1,661	1,666	1,670	

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		Project Indust Rounde	ted Defense rial Inorgar ed to Millions o	Projected Defense Purchases of Industrial Inorganic Chemicals Rounded to Millions of 1998 Dollars	of Is				95
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases Indirect Purchases		971	960	987	985	991	1,033	1,110	
·	Total:	1,543	1,513	1,544	1,537	1,538	1,591	1,699	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ASING SECT	JR.			
Aircraft Engines		4	4	4	4	4	4	4	
Aircraft Parts		7	9	9	7	7	7	7	
Ammunition		9	9	9	9	9	9	9	
Communication Equipment		14	14	13	13	13	14	14	
Missiles		4	4	4	4	4	4	4	
Motor Vehicles		9	2	2	8	9	9	9	
Shipbuilding		16	15	14	15	14	15	15	
Tanks		1	-	-	-	-	1	1	
Other Electronic Equipment		2	7	7	7	7	2	2	
Other Ordinances		0	0	0	0	0	0	0	
Other		512	497	200	496	490	501	531	
	Total:	572	554	557	553	547	558	589	

		Project Surgical Rounde	ed Defense and Medica d to Millions o	Projected Defense Purchases of Surgical and Medical Instruments Rounded to Millions of 1998 Dollars	f				249
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		1,490	1,412	1,423	1,414	1,314	1,356	1,375	
Indirect Purchases		23	22	22	22	21	20	20	
	Total:	1,513	1,434	1,445	1,435	1,335	1,375	1,395	
	INDIRE	INDIRECT DEFENSE PURCHASES BY	PURCHASES	BY PURCHA	PURCHASING SECTOR	80			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		23	22	22	22	20	19	20	
	Total:	23	22	22	22	21	20	20	

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		1997	1998	1999	2000	2001	2002	2003
		SUMMAI	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		1,273	1,228	1,278	1,290	1,277	1,269	1,273
Indirect Purchases		105	101	105	106	105	105	105
	Total:	1,378	1,329	1,383	1,395	1,382	1,373	1,378
	MONI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTIOD	PURCHASE	S RV PIIRCH	A CINC CECT	9		
Aircraft Engines		0	0	0	O O	<b>4</b>	C	c
Aircraft Parts		> <del></del>		_	•	· –	<b>-</b>	- c
Ammunition		0	0	-		-	. —	·
S Communication Equipment		-	-	1	=	-	· <del></del>	• -
Missiles		0	0	0	0	0	0	· C
Motor Vehicles		0	0	0	0	0	0	0
Shipbuilding		-	1		-	-		
Tanks		0	0	0	0	0	0	0
Other Electronic Equipment		0	0	0	0	0	0	0
Other Ordinances		0	0	0	0	0	0	0
Other		101	26	101	102	101	100	101
	Total:	105	. 101	105	106	105	105	105

Projected Defense Purchases of Measuring Devices and Environmental Controls
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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		917	808	606	910	917	946	266	
Indirect Purchases		346	346	360	367	374	376	386	
	Total:	1,262	1,233	1,269	1,277	1,290	1,322	1,383	
	INDIR	INDIRECT DEFENSE	FENSE PURCHASES BY PURCHASING SECTOR	BY PURCH	<b>ASING SECT</b>	OR			
Aircraft Engines		10	10	10	10	10	10	10	
Aircraft Parts		3	3	6	3	3	e	4	
Ammunition		2	2	2	2	2	7	7	
Communication Equipment			5	5	S	\$	5	8	
Missiles		2	2	2	2	2	2	7	
Motor Vehicles		14	13	13	14	15	15	15	
Shipbuilding		00	7	7	<b>∞</b>	<b>∞</b>	00	<b>o</b> o	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		301	303	317	322	328	330	338	
	Total:	346	346	360	367	374	376	386	

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		Projec	Projected Defense Purchases of Commercial Printing Rounded to Millions of 1998 Dollars	Purchases Printing of 1998 Dollar	of S				06
		1997	1998	1999	2000	2001	2002	2003	
		SUMMA	SUMMARY OF DEFENSE PURCHASES	VSE PURCHA	SES				
Direct Purchases		62	62	99	58	57	53	54	
Indirect Purchases		1,169	1,126	1,127	1,130	1,117	1,136	1,178	
	Total:	1,231	1,188	1,187	1,188	1,174	1,189	1,231	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	OR			
Aircraft Engines		35	34	35	34	34	35	36	
Aircraft Parts		44	43	44	45	47	48	50	
Ammunition		43	42	4	46	47	47	***	
<b>A</b> Communication Equipment		83	80	80	80	80	81	84	
Missiles		36	35	35	34	34	35	35	
Motor Vehicles		15	14	14	16	17	17	18	
Shipbuilding		56	25	25	26	26	27	28	
Tanks		3	3	3	3	3	4	4	
Other Electronic Equipment		3	3	33	3	m	8	8	
Other Ordinances		2	8	2	2	2	2	2	
Other		878	847	843	841	823	837	870	

1,178

1,136

1,117

1,130

1,127

1,126

1,169

Total:

		Projected Defense Purchases of Motor Vehicles and Passenger Car Bodies Rounded to Millions of 1998 Dollars	Projected Defense Purchases of r Vehicles and Passenger Car B Rounded to Millions of 1998 Dollars	Purchases of senger Car	of Bodies				
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		1,279	1,153	1,141	1,222	1,303	1,340	1,363	
Indirect Purchases		30	27	27	30	32	34	35	
	Total:	1,309	1,180	1,169	1,252	1,335	1,373	1,398	
	INDIRE	RECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	æ			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		19	17	17	18	20	20	21	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
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Other Electronic Equipment

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Other Ordinances

Other

34

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Total:

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		1997	1998	1999	2000	2001	2002	2003
		SUMMA	MARY OF DEFENSE PURCHASES	NSE PURCHA	SES			The state of the s
Direct Purchases		847	820	853	844	811	828	789
Indirect Purchases		185	174	174	175	173	172	169
	Total:	1,032	1,024	1,027	1,019	984	1,000	958
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	INDIK	INDIKECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	×		
Aircraft Engines		-	1	_	-	1	1	_
Aircraft Parts		1	-	1	H	<del>,</del>	-	٠,
Ammunition		1	-	-	_	_	<del>, -</del>	
Communication Equipment				-	· <del>-</del>	-	- t	<b>-</b>
Missiles			· -	-	-		<b>-</b> +-	<b>-</b> -
Motor Vehicles		0		· C	· c	- c	- ⊂	<b>→</b> <
Shipbuilding		37	36	36	. <b>00</b>	) ec	٥ 4	4 0
Tanks		0	0	0	0	0	. c	: 0
Other Electronic Equipment		0	0	0	0	0	0	· c
Other Ordinances		0	0	0	0	0	0	0
Other		142	133	133	132	129	126	122
	Total:	185	174	174	175	173	172	169

		Project Indust Rounde	ed Defense rial Organi d to Millions o	Projected Defense Purchases of Industrial Organic Chemicals Rounded to Millions of 1998 Dollars					96
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	ES				
Direct Purchases		4	4	4	4	4	4	4	
Indirect Purchases		1,057	1,004	266	994	876	992	1,029	
	Total:	1,061	1,008	1,001	866	981	966	1,032	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECT	R .			
Aircraft Engines		20	19	20	19	19	19	20	
Aircraft Parts		39	38	39	40	41	42	43	
		24	24	25	26	27	27	28	
Communication Equipment		2	62	63	25	65	99	69	
Missiles		22	21	21	21	21	22	22	
Motor Vehicles		23	21	21	23	24	25	25	
Shipbuilding		33	31	30	31	31	32	32	
Tanks		5	4	4	3	2	ν.	'n	
Other Electronic Equipment		13	13	13	12	13	13	14	
Other Ordinances		1	1	1	1	-	1	_	
Other		810	292	759	752	731	740	692	
	Total:	1,057	1,004	766	994	978	992	1,029	

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Projected Defense Purchases of	ferrous Rolling and Drawing, and Nonferrous Wire
Project	Other Nonferrous Roll

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFE	IMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		151	128	126	124	122	118	117	
Indirect Purchases		913	698	880	894	914	942	979	
	Total:	1,064	766	1,006	1,018	1,036	1,060	1,096	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	<b>8</b>			
Aircraft Engines		166	158	162	160	160	162	166	
Aircraft Parts		99	4	99	29	70	72	75	
Ammunition		13	13	14	15	15	15	16	
occumunication Equipment		82	79	79	80	82	83	87	
Missiles		31	30	31	31	31	32	33	
Motor Vehicles		4	4	4	4	4	\$	5	
Shipbuilding		32	31	30	32	32	33	33	
Tanks		31	28	28	30	32	33	34	
Other Electronic Equipment		10	10	10	6	10	10	11	
Other Ordinances		1		1	-	-	1		
Other		477	451	456	466	479	497	519	
	Total:	913	698	088	894	914	942	979	

Defense Purchases of	Apparel
Projected	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		913	808	784	786	558	899	089	
Indirect Purchases		186	169	165	165	132	148	151	
	Total:	1,098	716	950	951	069	816	831	
		,							
	INDIRI	INDIRECT DEFENSE	ENSE PURCHASES BY PURCHASING SECTOR	BY PURCH	ASING SECT	OR.			
Aircraft Engines		1	1		-	_	_	-	
Aircraft Parts		2	2	7	2	7	7	7	
Ammunition		11	11	11	12	12	12	12	
Communication Equipment		S	5	S	2	5	8	<b>S</b> .	
Missiles		1	1	. 1	1	-		1	
Motor Vehicles		1	1	1	-	-	-	1	
Shipbuilding		1	1	-	_	_	1	1	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		162	147	143	142	109	124	127	
	Total:	186	169	165	165	132	148	151	

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Purchases o Components	1999	
Projected Defense Purchases of Tanks and Tank Components Rounded to Millions of 1998 Dollars	1998	
Project Tanks Rounded	1997	

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		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	ES				
Direct Purchases	•	1,006	968	879	952	1,027	1,061	1,074	
Indirect Purchases		9	9	2	9	9	7	7	
	Total:	1,012	901	885	957	1,033	1,067	1,081	
	INDIRECT	ECT DEFENSE	PURCHASES 1	3Y.]	PURCHASING SECTOR	)R			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		9	9	2	9	9	7	7	
Other Electronic Equipment		0	0	0	0	0	0	. c	
Other Ordinances		0	0	0	0	0	0	0	
Other		0	0	0	0	0	0	0	
	Total:	9	9	5	9	9	7	7	

		1997	1998	1999	2000	2001	2002	2003
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		352	343	372	431	472	485	491
Indirect Purchases		591	545	542	570	585	601	613
	Total:	944	888	914	1,001	1,057	1,086	1,104
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	)R		
Aircraft Engines		<b>e</b>	3	æ	33	E	3	8
Aircraft Parts		4	4	4	4	4	4	4
Ammunition		4	4	4	4	4	4	ς.
Communication Equipment		7	7	7	7	7	7	7
Missiles		3	3	æ	က	ED	က	8
Motor Vehicles		438	396	394	424	452	464	470
Shipbuilding		9	9	9	9	9	7	7
Tanks		1	0	0	1	1	1	1
Other Electronic Equipment		1	-	1	1	1	-	1
Other Ordinances		0	0	0	0	0	0	0
Other		124	121	120	117	104	107	112
	Total:	591	545	542	570	585	601	613

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		Projec Compu Round	ted Defense ter Periphe	Projected Defense Purchases of Computer Peripheral Equipment Rounded to Millions of 1998 Dollars	of ent s				199
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	EY OF DEFE	IMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		341	339	338	339	342	336	341	
Indirect Purchases		496	483	475	469	467	461	467	
	Total:	837	822	814	808	808	797	808	
	INDIN	INDIRECT DEFENSE	PURCHASE	ENSE PURCHASES BY PURCHASING SECTOR	ASING SECT	80			
Aircraft Engines		4	4	4	4	4	4	4	
Aircraft Parts		S	2	8		S	'n	9	
Ammunition		1	-	1	1	-	-	1	
S Communication Equipment		9	9	9	9	9	9	9	
Missiles		7	2	2	7	2	2	2	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		1	_	1	1	1	1	1	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		476	464	456	450	448	441	446	
	Total:	496	483	475	469	467	461	467	

ojected Defense Purchases of	Small Arms Ammunition
Project	Sms

		Round	Rounded to Millions of 1998 Dollars	f 1998 Dollars		:			
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	MARY OF DEFENSE PURCHASES	SE PURCHAS	SES				
Direct Purchases		808	813	829	006	929	951	1,002	
Indirect Purchases		4	4	4	4	4	4	4	
	Total:	812	817	863	904	933	955	1,007	
	INDIKEC	T DEFENSE	INDIKECT DEFENSE PURCHASES BY PURCHASING SECTOR	BY PURCHA	SING SECT	¥			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		2	7	3	3	3	3	3	
Communication Equipment		0	0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		-	-	1			-	1	
. ,	Total:	4	4	4	4	4	4	4	

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		Projec Me	Projected Defense Purchases of Motors and Generators Rounded to Millions of 1998 Dollars	Purchases cenerators of 1998 Dollars	<b>-</b>				210
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES				
Direct Purchases		503	464	474	472	467	470	475	
Indirect Purchases		738	281	281	283	281	282	285	
	Total:	802	746	754	754	749	752	760	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECT	æ			
Aircraft Engines		. 1	-	-	1	1	-	-	
Aircraft Parts		9	9	9	9	9	9	9	
Ammunition		1	-	1	-	1	-	1	
Communication Equipment		37	35	34	34	34	34	35	
Missiles		4	4	4	3	33	က	4	
Motor Vehicles		4	в	3	4	4	4	4	
Shipbuilding		29	28	27	28	28	29	29	
Tanks		1	1	1	1		1	1	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	. 0	0	0	0	0	0	
Other		217	204	203	204	202	202	203	
	Total:	298	281	281	283	281	282	285	

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			1997	1998	1999	2000	2001	2002	2003	
			SUMMAR	IMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
	Direct Purchases		6	, 6	6	6	6	00	œ	
	Indirect Purchases		170	718	717	726	741	755	773	
		Total:	611	T2T	726	735	750	763	781	
		INDIRECTOES	ENSE	PURCHASES BY PURCHASING SECTOR	BY PURCHA	SING SECT	æ			
	Aircraft Engines		=======================================	19	20	19	19	19	20	
	Aircraft Parts		102	86	100	100	103	104	107	
	Ammunition		51	49	51	52	53	53	53	
55	Communication Equipment		46	4	43	43	42	42	43	
	Missiles		21	20	20	19	19	19	20	
	Motor Vehicles		13	12	12	13	14	14	14	
	Shipbuilding		57	54	53	55	55	56	56	
	Tanks		29	26	25	27	28	29	29	
	Other Electronic Equipment		4	4	4	3	8	ю	4	
	Other Ordinances		1	1	1	1	-	1		
	Other		425	390	388	393	404	413	425	

Total:

Projected Defense Purchases of Special Dies, Jigs, Molds and Cutting Tools

Dollars
1998
jo
Millions
5
Rounded

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAI	AMARY OF DEFENSE PURCHASES	SE PURCHA	SES			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Direct Purchases		135	112	111	107	102	91	81	
Indirect Purchases		591	547	555	268	589	613	636	
	Total:	726	629	999	9/9	069	704	716	
·									
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	JR.			
Aircraft Engines		39	37	38	38	37	38	39	
Aircraft Parts		19	19	19	19	20	21	21	
Ammunition		27	26	27	28	29	29	30	
Communication Equipment		23	22	22	22	22	23	23	
Missiles		19	18	18	18	18	18	19	
Motor Vehicles		19	17	17	19	20	21	21	
Shipbuilding		17	17	16	17	17	18	18	
Tanks		3	2	.2	3	3	en	8	
Other Electronic Equipment		2	2	2	2	2	2	2	
Other Ordinances		1	1	1	1	-	-	1	
Other		421	386	391	402	419	440	458	
	Total:	591	547	555	268	589	613	636	

		Projec Plasti Round	ted Defense ics Materials ed to Millions o	Projected Defense Purchases of Plastics Materials and Resins Rounded to Millions of 1998 Dollars	ي .				102
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	A OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES .				
Direct Purchases		Š	2	5	ν.	2	\$	ν,	
Indirect Purchases		999	633	634	638	635	648	672	
	Total:	029	637	638	643	639	652	119	
	INDIRECT DE	CT DEFENSE	PURCHASES	FENSE PURCHASES BY PURCHASING SECTOR	SING SECTO	×			
Aircraft Engines		16	15	15	15	15	15	16	
Aircraft Parts		46	45	46	46	48	49	51	
Ammunition		20	20	21	22	22	23	23	
2 Communication Equipment		52	20	20	51	52	53	55	
Missiles		27	25	25	25	25	26	26	
Motor Vehicles		23	21	21	23	25	26	26	
Shipbuilding		18	17	17	18	18	18	18	
Tanks		2	4	4	2	5	ĸ	٧,	
Other Electronic Equipment		16	16	16	15	15	16	16	
Other Ordinances		-	0	1	1	-	1	<b>;1</b>	
Other		443	419	417	417	409	417	435	
	Total:	999	633	634	638	635	648	672	

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Projected Defense Purchases of Electrical Machinery, Equipment and Supplies, n.e.c.

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		623	209	909	592	595	604	628	
Indirect Purchases		15	14	14	15	15	15	15	
	Total:	989	622	620	607	609	619	644	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECTO	)R			
Aircraft Engines		0	0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	0	
Communication Equipment	,	9	9	9	9	9	9	9	
Missiles		0	0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		∞	00	00	•	00	œ	00	
	Total:	15	14	14	15	15	15	15.	

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<b>Projected Defense Purchases of</b>	Pipe, Valves and Pipe Fittings	

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1998 D
Millions of
Rounded to ]

		Fipe, Rounde	ripe, valves and ripe ritings Rounded to Millions of 1998 Dollars	ripe Fittings f 1998 Dollars					
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		87	85	84	83	82	77	78	
Indirect Purchases		551	530	537	555	555	278	298	
	Total:	638	615	621	637	636	655	119	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ASING SECT	<b>%</b>			
Aircraft Engines		4	4	4	4	4	4	4	
Aircraft Parts		16	16	17	17	18	19	20	
S Ammunition		3	3	4	4	4	4	4	
		9	9	9	9	9	7	7	
Missiles		5	4	4	4	5	2	8	
Motor Vehicles		3	က	3	4	4	4	4	
Shipbuilding		162	158	158	167	169	177	181	
Tanks		1	0	0	1	_	<b>~</b>	1	
Other Electronic Equipment		1	1	-	-	_	1	_	
Other Ordinances		0	0	0	0	0	0	0	
Other		350	334	339	347	343	358	372	
	Total:	551	530	537	555	555	578	598	

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		Projec Newspap Rounde	ted Defense er Publishi	Projected Defense Purchases of Newspaper Publishing and Printing Rounded to Millions of 1998 Dollars	of ting	·			98
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES				
Direct Purchases		1	—	1	1	1	1	1	
Indirect Purchases		657	902	287	573	552	547	550	
	Total:	859	909	588	573	552	548	550	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECT	×			
Aircraft Engines		26	24	24	22		21	21	
Aircraft Parts		30	29	78	28	28	28	28	
9 Ammunition		31	30	30	30	30	29	29	
Communication Equipment		57	53	51	49	. 48	47	47	
Missiles		26	. 24	23	22	21	21	20	
Motor Vehicles		10	6	6	6	6	6	6	
Shipbuilding		14	13	13	13	12	12	12	
Tanks		2	7	2	2	2	2	2	
Other Electronic Equipment		2	1	_	1	_	-	=	
Other Ordinances		1	1	1	1	-	1	-	
Other		457	420	406	395	377	375	379	
	Total:	657	605	287	573	552	547	550	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		47	46	46	46	46	46	46	
Indirect Purchases		265	539	548	561	267	584	603	
	Total:	612	585	594	209	613	630	649	
	INDIRECT DE		FENSE PURCHASES BY PURCHASING SECTOR	BY PURCH	ASING SECTO	. <b>X</b>			
Aircraft Engines		31	30	31	30	30	31	32	
Aircraft Parts		51	20	52	53	55	57	09	
9 Amminition		48	47	20	52	53	54	55	
Communication Equipment		36	35	35	35	36	37	38	
Missiles		23	. 22	22	22	22	22	23	
Motor Vehicles		26	24	25	28	30	31	32	
Shipbuilding		31	31	30	32	32	33	34	
Tanks		8	3	3	en	က	33	4	
Other Electronic Equipment		3	3	3	က	က	8	3	
Other Ordinances		2	1	2	2	2	2	2	
Other		312	294	297	301	299	310	320	
	Total:	595	539	548	561	292	584	603	

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		Projected H	ed Defense Purch Hardware, n.e.c.	Projected Defense Purchases of Hardware, n.e.c.	<b>8</b>				158
		Rounded (	to Millions of	Rounded to Millions of 1998 Dollars					
		1997	1998	1999	2000	2001	2002	2003	
		SUMMARY	OF DEFENS	SUMMARY OF DEFENSE PURCHASES	ES				
Direct Purchases		393	358	352	361	372	378	383	
Indirect Purchases		235	224	226	229	230	237	244	
	Total:	629	581	578	591	602	615	627	
	INDIRECT DE	DEFENSE PL	RCHASES	SV PURCHAS	FENSE PURCHASES BY PURCHASING SECTOR	~			
Aircraft Engines		ന	3	3	3	3	33	ю	
Aircraft Parts		65	63	65	99	89	70	72	
Paramonition 59		3	3	33	3	3	6	3	
Communication Equipment		2	2	2	2	2	2	2	
Missiles		6	6	6	6	6	6	6	
Motor Vehicles		6	<b>∞</b>	œ	6	10	10	10	
Shipbuilding		12	12	12	12	12	13	13	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		130	122	123	124	122	126	130	
	Total:	235	224	226	229	230	237	244	

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		Projected Defense Purchases of Metal Plating, Polishing and Coating Rounded to Millions of 1998 Dollars	Projected Defense Purchases of etal Plating, Polishing and Coati	rchases of g and Coati	gu				159
		1997	1998	1999	2000	2001	2002	2003	
		SUMMARY	SUMMARY OF DEFENSE PURCHASES	PURCHASE	S				
Direct Purchases		2	2	2	2		1	-	
Indirect Purchases		582	263	574	585	299	919	644	
	Total:	583	565	575	587	009	618	646	
	INDIRECT	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	URCHASES B	Y PURCHAS	ING SECTO	~			
Aircraft Engines		43	41	43	42	42	43	4	
Aircraft Parts		51	20	51	53	55	57	59	
9 Ammunition		41	40	43	45	46	47	48	
Communication Equipment		132	128	130	131	134	137	143	
Missiles		31	30	30	30	31	32	33	
Motor Vehicles		13	12	12	14	15	15	15	
Shipbuilding		13	12	12	13	13	13	. 13	
Tanks		2	1	1	2	7	2	2	
Other Electronic Equipment		30	29	29	28	78	29	30	
Other Ordinances		3	ဧ	ю	33	4	4	4	
Other		224	216	220	225	229	238	251	
	Total:	582	563	574	585	599	616	644	

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	JMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		7	7	9	9	9	8	9	
Indirect Purchases		572	546	540	536	522	526	541	
	Total:	579	553	546	542	528	531	547	
	INDIRI	INDIRECT DEFENSE	FENSE PURCHASES BY PURCHASING SECTOR	BY PURCHA	ASTNG SECT	8			
Aircraft Engines		16	15	16	15	15	15	15	
Aircraft Parts		20	20	70	20	21	21	22	
Ammunition		20	19	20	20	21	21	21	
Communication Equipment		39	37	37	36	36	36	37	
Missiles		17	16	16	16	16	16	16	
Motor Vehicles		7	9	9	7	7	<b>∞</b>	<b>∞</b>	
Shipbuilding		13	13	12	13	13	13	13	
Tanks		2	1	_	1	2	2	2	
Other Electronic Equipment		2	7	2	-	-	7	2	
Other Ordinances		-	1	_	1	1		-	
Other		435	416	409	404	389	392	405	
	Total:	572	546	540	536	522	526	541	

Projected Defense Purchases of Fabricated Metal Products, n.e.c.

		Rounded	Rounded to Millions of 1998 Dollars	1998 Dollars					
		1997	1998	1999	2000	2001	2002	2003	
		CTIMMAD	CTIMMARY OF DEFENSE PURCHASES	SE PURCHAS	FS				
Discost Breach order		128	121	120	119	117	110	109	
Direct Furchases Indirect Purchases		436	417	424	431	434	440	452	
	Total:	564	538	544	550	551	550	561	
	INDIREC	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECTO	)R			
Aircraft Engines		5	5	<b>.</b>	5	5	5	5	
Aircraft Parts		10	10	10	10	10	11	11	
Amminition		202	195	204	211	215	215	218	
Communication Equipment		37	35	35	34	35	35	35	
Missiles		S	4	4	4	4	4	ν.	
Motor Vehicles		4	3	3	4	4	4	4	
Shinbuilding		19	18	18	18	18	19	19	
Tanke		10	6	6	10	10	11	11	
Other Flectronic Fourinment		1	_	1	1	-	1		
Other Ordinances		6	00	6	10	11	12	12	
Other		135	127	125	124	120	123	130	
	Total:	436	417	424	431	434	440	452	

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	AY OF DEFE	MARY OF DEFENSE PURCHASES	SES			THE STATE OF THE S	
Direct Purchases		20	19	19	19	18	17	17	
Indirect Purchases	999	545	513	520	533	549	999	586	
	Total:	265	532	539	552	267	583	603	
	INDIR	INDIRECT DEFENSE	PURCHASE	S BY PURCH	ENSE PURCHASES BY PURCHASING SECTOR	×			
Aircraft Engines		13	12	12	12	12	12	13	
Aircraft Parts		19	59	19	62	64	99	89	
Ammunition		49	47	50	51	53	53	54	
Communication Equipment		53	51	51	20	51	51	53	
Missiles		14	13	13	13	13	13	14	
Motor Vehicles		21	19	19	21	23	23	24	
Shipbuilding		34	33	32	34	34	35	36	
Tanks		9	5	5	9	9	9	7	
Other Electronic Equipment		4	4	4	4	4	4	4	
Other Ordinances		3	2	2	33	8	8	ო	
Other		289	267	270	777	287	299	311	
	Total:	545	513	520	533	549	566	586	

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Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		537	462	462	445	417	365	314	
Indirect Purchases		73	<i>L</i> 9	69	70	70	69	69	
	Total:	610	530	531	515	487	435	382	
		HER PREPARE DID CHASES BY DID CHASING SECTOR	DIDCHACEC	A PIDCH	A CINE SECT	a			
4	MICHI	acı Defense	FUNCTIABLE	9 1 1 0 0 0 1	9	7	7	7	
Aircraft Engines		) oo	) oc	000	∞	œ	6	6	
Amminition		S	5	5	ν.	9	9	9	
Communication Equipment		1	1	-	1	1	1	1	
Missiles		2	2	2	2	2	2	2	
Motor Vehicles		1	1	1	1	-		1	
Shinbuilding		ĸ	က	3	4	4	4	4	
Tanke		1	1	1	1		1	1	
Other Flectronic Fourinment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		46	41	42	42	41	39	38	
	Total:	73	19	69	70	70	69	69	

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Projected Defense Purchases of	Laboratory and Optical Instruments	Rounded to Millions of 1998 Dollars

		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			100 min 100 mi	
Direct Purchases		274	267	268	271	275	276	277	
Indirect Purchases	,	272	260	262	260	261	265	272	
	Total:	547	527	530	530	536	541	549	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	×			
Aircraft Engines		5	5	5	5	٧.	8	9	
Aircraft Parts		55	53	55	26	28	59	62	
Ammunition		4	4	4	4	4	4	4	
Communication Equipment		10	10	10	10	10	10	10	
Missiles		192	181	180	176	175	176	179	
Motor Vehicles		0	0	0	0	0	0	0	
Shipbuilding		0	0	0	. 0	0	0	0	
Tanks		0	0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	0	
Other		9	9	7	<b>∞</b>	•	6	10	
	Total:	272	260	262	260	261	265	272	

**Projected Defense Purchases of Broadwoven Fabric Mills** 

		Rounde	Rounded to Millions of 1998 Dollars	f 1998 Dollar					
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		82	65	64	62	58	52	52	
Indirect Purchases		497	448	441	443	375	404	415	
	Total:	579	513	505	504	433	457	468	
		INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	OR			
Aircraft Engines		6	6	6	6	6	6	6	
Aircraft Parts		e	က	9	3	3	3	3	
Amminition		4	4	4	4	4	4	4	
6 Auminimication Fourinment		9	9	9	9	9	9	9	
Missiles		4	4	4	4	4	4	4	
Motor Vehicles		12	11	11	12	13	13	14	
Shirkmilding		9	2	9	9	9	9	9	
Tonke		1	0	0	1	1	1	1	
Other Electronic Foundament		1	1	-	1		1	1	
Other Ordinances		0	0	0	0	0	0	0	
		453	YUK	300	308	330	357	367	

Total:

Other

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Projected Defense Purchases of

SUMMARY OF DEFENSE PURCHASES   1999   2000   2001   2002   2003			Miscellaneo	Miscellaneous Fabricated Textile Products	d Textile Pr	oducts				
1997   1998   1999   2000   2001   2002   2002     Direct Purchases   332   399   303   300   276   267     Indirect Purchases   328   399   303   300   276   267     Indirect Purchases   198   184   185   193   189   201     Indirect Purchases   198   184   185   193   189   201     Avirart Engines   1			Round	ed to Millions o	f 1998 Dollars					
SUMMARY OF DEFENSE PURCHASES           Indirect Purchases         309         303         300         276         267           Indirect Purchases         Total:         530         492         488         493         468         468           Aircraft Engines         Total:         530         492         488         493         465         468           Aircraft Engines         Indirect Purchases         PURCHASES BY PURCHASES BY PURCHASING SECTOR         1         4         4         4		7.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	1997	1998	1999	2000	2001	2002	2003	
Direct Purchases         332         309         303         306         276         267           Indirect Purchases         Total:         530         492         488         493         465         468           Aiveraft Parts         Aiveraft Engines         Anomatical Engines			SUMMAK	RY OF DEFEN	SE PURCHA	SES			Topical Control Contro	
Indirect Purchases         Total:         530         492         488         493         465         468           Aircraft Engines         INDIRECT DEFENSE PUR CHASES BY PUR CHASING SECTOR           Aircraft Engines         1 <td< td=""><td>Direct Purchases</td><td></td><td>332</td><td>309</td><td>303</td><td>300</td><td>276</td><td>267</td><td>279</td><td></td></td<>	Direct Purchases		332	309	303	300	276	267	279	
Aircraft Engines         HODRECT DEFENSE PURCHASES BY PURCHASING SECTOR         465         468           Aircraft Engines         1	Indirect Purchases		198	184	185	193	189	201	209	
Aircraft Engines         INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR           Aircraft Engines         1         1         1         1         1           Ammunition         1         1         1         1         1           Communication Equipment         1         1         1         1         1           Missiles         1         1         1         1         1         1           Missiles         44         40         40         44         47         49           Motor Vehicles         20         20         20         21         22         23           Tanks         0         0         0         0         0         0         0           Other Diter Dictoric Equipment         0         0         0         0         0         0         0           Other Odinances         0         0         0         0         0         0         0           Other Odinances         129         120         120         123         115         12         1           Total:         185         193         181         201         201         201         201         201         201 </td <td></td> <td>Total:</td> <td>530</td> <td>492</td> <td>488</td> <td>493</td> <td>465</td> <td>468</td> <td>488</td> <td></td>		Total:	530	492	488	493	465	468	488	
Aircraft Engines         INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR           Aircraft Parts         1         1         1         1         1           Ammunition         1         1         1         1         1           Communication Equipment         1         1         1         1         1           Missiles         1         1         1         1         1         1           Missiles         1         1         1         1         1         1           Missiles         4         40         40         44         47         49           Shipbuilding         20         20         20         21         22         23           Tanks         0         0         0         0         0         0         0           Other Ordinances         1         12         12         12         12         12           Other         1         0         0         0         0         0         0           Other         1         1         1         1         1         1         1           Total         1         0         0         0         0 </td <td></td>										
Aircraft Engines         1		IUNI	RECT DEFENSE	PURCHASES	BY PURCHA	SING SECT	<b>8</b>			
Aircraft Parts         1	Aircraft Engines		-	1	_	-	-	1	-	
Ammunition         I         1         4	Aircraft Parts		1	-	1	1		<b>—</b>	#	
es     1     1     1     1     1     1       es     1     1     1     1     1     1       es     1     1     1     1     1       es     1     1     1     1     1       restriction     44     40     40     44     47     49       suiding     20     20     20     21     22     23       Description     0     0     0     0     0     0       Ordinances     0     0     0     0     0       Total:     129     129     129     185     185     189     201     2	Ammunition		1	1	_	-	_		1	
es       1       4	Communication Equipment		1	1	1	1	-	-	П	
Vehicles         44         40         40         44         47         49           uilding         20         20         20         21         22         23           0         0         0         0         0         0         0           Electronic Equipment         0         0         0         0         0         0           Ordinances         0         0         0         0         0         0         0           Total:         159         184         185         193         189         201         2	Missiles		-	1	-		_	П	1	
uilding     20     20     20     21     23     23       0     0     0     0     0     0     0       Blectronic Equipment     0     0     0     0     0     0       Ordinances     129     120     120     123     115     125     1       Total:     198     184     185     193     189     201     201     2	Motor Vehicles		4	40	40	4	47	49	50	
Electronic Equipment 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Shipbuilding		20	20	20	21	22	23	23	
Electronic Equipment 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tanks		0	0	0	0	0	0	0	
Ordinances         0         0         0         0         0         0           129         120         120         123         115         125           Total:         198         184         185         193         189         201	Other Electronic Equipment		0	0	0	0	0	0	0	
Total:         129         120         120         123         115         125	Other Ordinances		0	0	0	0	0	0	0	
198 184 185 193 189 201	Other		129	120	120	123	115	125	130	
		Total:	198	184	185	193	189	201	209	

Projected Defense Purchases of	Relays and Industrial Controls	Rounded to Millions of 1998 Dollars

		Modifica		Compared to territories of 1770 Domina				
		1997	1998	1999	2000	2001	2002	2003
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		41	44	4	4	51	65	06
Indirect Purchases		461	441	440	439	439	441	449
	Total:	202	485	484	484	489	206	539
		INDIPECT DEFENSE PUBCHASES BY PURCHASING SECTOR	PHDCHASES	S RV PIRCH	ASING SECT	ä		
Aircraft Engines			2	2	2	2	2	2
Aircraft Parts		2	2	2	2	2	8	က
Amminition		4	4	4	\$	S	5	5
Communication Equipment		102	86	86	86	66	100	103
Missiles		7	9	7	7	7	7	7
Motor Vehicles		3	3	3	က	m	4	4
Shipbuilding		40	39	39	9	41	42	43
Tanks		0	0	0	0	0	0	0
Other Electronic Equipment		0	0	0	0	0	0	1
Other Ordinances		0	0	0	0	0	0	0
Other		299	285	284	281	279	278	282
	Total:	461	441	440	439	439	441	449

		Project Nonferro	Projected Defense Purchases of Nonferrous Castings and Forgings Rounded to Millions of 1998 Dollars	Purchases of and Forging 1998 Dollars	je Basansa Je				145
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	ARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		2	2	2	2	2	7	7	
Indirect Purchases		476	458	473	479	488	200	517	
	Total:	477	460	475	481	490	502	518	
	ROM	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	TOES BUSY	æ			
Aircraft Engines		231	221	228	226	226	230	237	
Aircraft Parts		39	38	40	41	42	4	46	•
Ammunition		45	44	46	48	49	49	50	
Communication Equipment		13	12	12	12	12	13	13	
Missiles		44	43	43	43	43	4	46	
Motor Vehicles		1	1	1	2	2	2	7	
Shipbuilding		9	9	9	9	9	7	7	
Tanks		6	∞	∞	00	6	6	10	
Other Electronic Equipment		1	_	1	-	1		_	
Other Ordinances		2	2	2	2	2	2	7	
Other		84	82	98	06	95	66	103	

Ammunition 42

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Total:

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Rounded to Millions of 1998 Dollars

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		1997	1998	1999	2000	2001	2002	2003	
		SUMMAE	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES				
Direct Purchases		225	230	234	235	249	285	344	
Indirect Purchases		234	228	230	232	231	237	246	
	Total:	459	458	463	466	481	522	290	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCHA	<b>ASING SECT</b>	OR			
Aircraft Engines		S	5	S	5	5	5	'n	
Aircraft Parts		∞	00	∞	∞	00	6	6	
2. Ammunition		18	18	61	19	20	20	21	
		13	13	13	13	13	. 41	14	
Missiles		7	7	7	7	7	7	œ	
Motor Vehicles		2	2	2	2	2	7	2	
Shipbuilding		4	4	4	2	5	5	ς.	
Tanks		1	0	0	_	1	1	1	
Other Electronic Equipment		1	1		-		-	-	
Other Ordinances		0	0	0	0	0	0	0	
Other		175	170	170	171	169	173	180	
	Total:	234	228	230	232	231	237	246	

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		Projec Periodic	Projected Defense Purchases of Periodical Publishing and Printing	Purchases or gand Print	ing .				87
		1997	1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES				
Direct Purchases		80	3	25	2	2	5	v	
Indirect Purchases		443	427	432	439	438	451	470	
	Total:	447	432	437	443	443	455	475	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	STNG SECTO	_			
Aircraft Engines		17	16	16	16	16	17	17	
Aircrast Parts		20	19	20	20	21	52	23	
5. Ammunition		20	20	21	22	23	. 23	24	
Communication Equipment		38	37	37	37	38	38	. 40	
Missiles		18	17	17	17	17	17	18	
Motor Vehicles		9	9	9	7	7	7	<b>∞</b>	
Shipbuilding		10	10	10	10	10	11	11	
Tanks		=	1	_	1	-	-	6	

Other Electronic Equipment

Other Ordinances

Total:

## SECTION III: INDIVIDUAL STATE PROJECTIONS

The tables in this section give state-level estimates of defense and defense-related expenditures in calendar years 1997 through 2003. A separate table presents estimates for each of the 50 states and the District of Columbia; an additional table is provided for the United States as a whole. Each table is divided into two parts, the first providing a general overview of projected spending trends over the forecast period, and the second presenting estimates for the industrial sectors projected to lead in defense or defense-related sales statewide.

The first section of each table presents estimates of direct defense purchases and pay, and of indirect defense purchases for each year of the projection period. (For purposes of comparison, projections of nondefense expenditures and of total output — total economic activity — also are provided.)<sup>3</sup>

The second section provides estimates of the dollar value of direct and indirect purchases from the five industrial sectors projected to lead in defense sales in the state, and the five projected to lead in indirect sales stemming from DoD purchases, over the forecast period.

The industrial sectors represented in the tables are aggregates of the industries covered in Section II. Industrial projections are made for 320 industries. For purposes of the state-level reports, these are grouped into 85 industrial sectors. Thus, industrial sector 44, "Aerospace," used in the state tables, includes four industries: industry 235, "Aircraft"; industry 236, "Aircraft and missile engines, propulsion units, and parts"; industry 237, "Aircraft and missile parts and auxiliary equipment, n.e.c."; and industry 21, "Guided missiles and space vehicles."

Total nondefense expenditures represent the difference between total output and total (direct plus indirect) defense purchases and pay. Note that total output is different from (and larger than) gross domestic product (GDP). The calculation of GDP nets out intermediate goods; that is, it does not include the value of intermediate products, products used to make (or included in) goods for final sale. Total output includes these intermediate products.

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Summary	Amadad to Millians of 1000 dollar
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	Kounded to M	Kounded to Millions of 1999 dollars	dollars					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	5,312	5,108	5,034	4,982	4,818	4,839	4,904	
Indirect Defense Purchases Resulting from Direct Purchases	2,365	2,276	2,280	2,287	2,250	2,297	2,372	
Indirect Defense Purchases Resulting from Direct Pay	1,191	1,150	1,120	1,111	1,098	1,089	1,111	
Total Nondefense Expenditures	212,062	214,720	218,874	224,241	228,020	231,965	236,154	
Total Output	220,933	223,256	227,311	232,624	236,188	240,194	244,543	
Government Compensation: Pay, Military + Civilian	2,525	2,464	2,434	2,418	2,392	2,371	2,402	
LARGEST	P .	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	1,006	996	947	912	894	887	893	
Aerospace	446	424	427	427	434	439	453	
Air Transportation	234	223	220	224	179	202	205	
Apparel and Household Textiles	213	190	185	185	137	158	161	
Construction	172	157	148	144	142	144	142	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	726	705	707	703	689	701	719	
Wholesale Trade	109	105	106	107	105	107	110	
Other Nonferrous Metals	94	68	91	92	94	96	66	
Ferrous Metals	94	88	88	68	88	88	8	
Aerospace	78	92	61	81	82	84	87	

Alaska Summary Rounded to Millions of 1999		dollars
<b>laska Su</b> to Million	nary	1999
	Alaska Sumr	to Million

		C TATALOGUE OF 1777 COURTS	COHOLO					
	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,505	2,446	2,404	2,407	2,271	2,460	2,689	
Indirect Defense Purchases Resulting from Direct Purchases	200	481	476	476	461	463	481	
Indirect Defense Purchases Resulting from Direct Pay	382	369	360	357	353	351	358	
Total Nondefense Expenditures	33,594	34,281	34,678	35,171	35,591	35,835	36,016	
Total Output	36,982	37,578	37,917	38,411	38,676	39,108	39,544	
Government Compensation: Pay, Military + Civilian	949	927	919	914	606	904	912	
LARGEST	EST PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
	465	484	477	482	536	657	862	
Trucking and Highway Passenger Transit	268	254	249	256	170	213	218	
Railroads	257	244	238	245	191	202	207	
Construction	178	167	160	157	156	157	157	
Research Labs, Computer and Engineering Services	133	126	122	121	121	122	124	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	96	92	91	93	94	96	100	
Crude Petroleum	93	06	87	85	62	75	79	
Electric Utilities	36	34	35	35	35	36	37	
Gas Utilities	36	34	34	34	33	34	34	
Air Transportation	30	29	29	29	28	28	29	

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Summary	00
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1997   1998   1999   2000   2001   2002   2003   2008	The state of the s							
AGGREGATE MEASURES  4511 4,370 4,384 4,411 4,449 4,504  cchases 2,066 2,004 2,035 2,064 2,069 2,131  7 1,229 1,192 1,165 1,160 1,149 1,142  205,109 208,193 212,709 218,400 222,782 227,404 2  2,036 2,009 1,997 1,992 1,982 1,974  LARGEST PURCHASES BY INDUSTRIAL SECTIORS  es 461 446 439 429 428 427  130 130 124 122 122  Purchases  416 410 429 448 468 495  ccs 333 325 327 330 330 330  ccs 289 282 290 290 291 291 313  es 333 325 327 330 330 330  es 348 89 89 89 89 89 89 89 89 89 89 89 89 89		1997	1998	1999	2000	2001	2002	2003
chases 2,066 2,004 2,035 2,064 2,069 2,131  7 1,229 1,192 1,165 1,160 1,149 1,142  197,302 200,626 205,124 210,763 215,114 219,626 2  205,109 208,193 212,709 228,400 222,782 227,404 2  2,036 2,009 1,997 1,992 1,982 1,974  LARGEST PURCHASES BY INDUSTRIAL SECTYORS  ces 461 446 439 429 428 428 427  130 124 122 122 123  Purchases  ponents 416 410 429 448 468 495  ces 333 325 327 330 330 338  ces 289 282 290 290 291 291 294  83 81 81 81 81 82 89		AGGREG	ATE MEASU	RES				
chases 2,066 2,004 2,035 2,064 2,069 2,131  / 1973 1,192 1,165 1,160 1,149 1,142  205,109 208,193 212,709 218,400 222,782 217,404 2  2,036 2,009 1,997 1,992 1,982 1,974  LARGEST PURCHASES BY INDUSTRIAL SECTORS   ces 461 446 439 429 428 428 427  130 130 124 122 122  Purchases  boneuts 416 410 429 429 448 468 495  ces 333 325 327 330 330 338  ces 289 282 290 290 291 330 338  ces 333 325 327 330 330 338  ces 289 282 290 290 290 291 291  83 81 81 81 82 79 82	Total Direct Expenditures (Purchases and Pay)	4,511	4,370	4,384	4,411	4,449	4,504	4,595
1,229	Indirect Defense Purchases Resulting from Direct Purchases	2,066	2,004	2,035	2,064	2,069	2,131	2,224
197,302   200,626   205,124   210,763   215,114   219,626   205,109   208,193   212,709   218,400   222,782   227,404   220,5109   208,193   212,709   1,992   1,982   1,974   227,404   22,036   2,009   1,997   1,992   1,974   227,404   22,036   2,009   1,997   1,992   1,974   22,036   227,404   22,036   227,404   22,036   227,404   22,036   227,404   22,046   227,404   22,046   227,404   22,046   227,404   227,	Indirect Defense Purchases Resulting from Direct Pay	1,229	1,192	1,165	1,160	1,149	1,142	1,167
205,109 208,193 212,709 218,400 222,782 227,404  2,036 2,009 1,997 1,992 1,982 1,974  LARGEST PURCHASES BY INDUSTRIAL SECTORS  ces 461 446 439 429 428 427  327 319 336 352 363 372  139 130 124 122 122 123  130 128 132 133 134 141  Purchases  ces 333 325 229 229 229 239 339 338  ces 333 325 229 229 290 291 291 294  94 90 90 91 90 91 82 82	Total Nondefense Expenditures	197,302	200,626	205,124	210,763	215,114	219,626	224,374
LARGEST PURCHASES BY INDUSTRIAL SECTORS  Ces 461 446 439 925 971 1,008 1.  1327 319 336 352 363 372 123 123 123 130 124 122 122 123 130 128 132 134 141 141 141 141 141 141 141 141 141	Total Output	205,109	208,193	212,709	218,400	222,782	227,404	232,362
GEST PURCHASES BY INDUSTRIAL SECTORS         440       878       899       925       971       1,008       1,477         461       446       439       429       428       427         327       319       336       352       363       372         139       130       124       122       123       123         130       128       132       134       141         416       410       429       448       468       495         416       410       429       448       468       495         333       325       327       330       330       338         289       282       290       290       291       90       92         83       81       81       82       79       82	Government Compensation: Pay, Military + Civilian	2,036	2,009	1,997	1,992	1,982	1,974	1,982
940       878       899       925       971       1,008       1,408         461       446       439       429       428       427         327       319       336       352       363       372         139       130       124       122       123       123         130       128       132       134       141         416       410       429       448       468       495         333       325       327       330       330       338         289       282       290       290       291       294         94       90       90       91       90       92         83       81       81       82       79       82								
461       446       439       429       428       427         327       319       336       352       363       372         139       130       124       122       123       123         130       128       132       134       141         416       410       429       448       468       495         333       325       327       330       338       294         289       282       290       290       291       294         94       90       90       91       90       92         83       81       81       82       79       82	Aerospace	940	878	899	925	971	1,008	1.046
327       319       336       352       363       372         139       130       124       122       123         130       128       132       134       141         416       410       429       448       468       495         333       325       327       330       336       495         289       282       290       290       291       294         94       90       90       91       90       92         83       81       81       82       79       82	Research Labs, Computer and Engineering Services	461	446	439	429	428	427	435
139       130       124       122       123         130       128       132       123       123         130       128       134       141         416       410       429       448       468       495         333       325       327       330       338       338         289       282       290       290       291       294         94       90       90       91       90       92         83       81       81       82       79       82	Metal Products	327	319	336	352	363	372	382
130     128     132     134     141       416     410     429     448     468     495       333     325     327     330     338     338       289     282     290     291     294       94     90     90     91     90     92       83     81     81     82     79     82	Construction	139	130	124	122	122	123	122
416       410       429       448       468       495         333       325       327       330       338         289       282       290       290       291       294         94       90       90       91       90       92         83       81       81       82       79       82	Other Chemicals	130	128	132	133	134	141	151
nents         416         410         429         448         468         495           333         325         327         330         338           289         282         290         291         294           94         90         90         91         90         92           83         81         82         79         82	Indirect Defense Purchases Resulting from Direct Purchases							
333     325     327     330     338       289     280     290     291     294       94     90     91     90     92       83     81     81     82     79     82	Communications Equipment and Electronic Components	416	410	429	448	468	495	529
289     282     290     291     294       94     90     90     91     90     92       83     81     81     82     79     82	Research Labs, Computer and Engineering Services	333	325	327	330	330	338	350
94     90     90     91     90     92       83     81     81     82     79     82	Aerospace	289	282	290	290	291	294	300
83 81 81 82 79 82	Wholesale Trade	94	06	06	91	06	92	96
	Finance and Insurance	83	81	81	82	79	82	85

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	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	1,286	1,251	1,240	1,238	1,201	1,207	1,218
Indirect Defense Purchases Resulting from Direct Purchases	894	856	859	867	851	698	006
Indirect Defense Purchases Resulting from Direct Pay	502	484	470	465	458	453	460
Total Nondefense Expenditures	119,168	120,500	123,029	126,495	128,723	131,145	133,690
Total Output	121,852	123,092	125,599	129,066	131,234	133,676	136,270
Government Compensation: Pay, Military + Civilian	803	793	789	787	783	611	782
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
∞ Aerospace	100	94	95	96	86	101	104
Construction	75	. 71	89	<i>L</i> 9	29	<i>L</i> 9	29
Air Transportation	69	65	65	99	52	59	09
Food and Tobacco	47	45	4	43	41	36	37
Shoes and Leather	34	31	30	30	21	25	78
Indirect Defense Purchases Resulting from Direct Purchases							
Wholesale Trade	62	09	09	61	99	62	64
Other Nonferrous Metals	59	56	57	57	58	59	61
Metal Products	26	54	55	56	57	59	61
Trucking and Highway Passenger Transit	44	43	43	4	40	43	45
Ferrous Metals	41	39	4	41	42	43	4

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Summary	1999
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Total Direct Expenditures (Purchases and Pay) Indirect Defense Purchases Resulting from Direct Purchases Indirect Defense Purchases Resulting from Direct Pay Total Nondefense Expenditures Total Output Government Compensation: Pay, Military + Civilian	AGGREG 42,599 16,342 7,783 1,495,279 1,561,987 13,954	AGGREGATE MEASURES         42,599       40,951       40,720         16,342       15,782       15,842         7,783       7,531       7,336         1,561,987       1,520,875       1,551,138       1,5         1,561,987       1,585,122       1,615,020       1,6         13,954       13,633       13,484	1999 JRES 40,720 15,842 7,336 1,551,138 1,615,020 13,484 TRIAL SECT	2000 40,703 15,924 7,275 1,587,766 1,651,651 13,407	40,670 15,734 7,194 1,616,929 1,680,508 13,283	2002 40,987 16,095 7,137 1,646,827 1,711,026 13,185	2003 42,126 16,718 7,278 1,677,681 1,743,783
	AGGREG 42,599 16,342 7,783 ,495,279 ,561,987 13,954	40,951 15,782 7,531 1,520,875 1,585,122 13,633	40,720 15,842 7,336 1,551,138 1,615,020 13,484	40,703 15,924 7,275 1,587,766 1,651,651 13,407	40,670 15,734 7,194 1,616,929 1,680,508	40,987 16,095 7,137 1,646,827 1,711,026 13,185	42,126 16,718 7,278 1,677,681 1,743,783
	42,599 16,342 7,783 ,495,279 ,561,987 13,954	40,951 15,782 7,531 1,520,875 1,585,122 13,633	40,720 15,842 7,336 1,551,138 1,615,020 13,484	40,703 15,924 7,275 1,587,766 1,651,651 13,407	40,670 15,734 7,194 1,616,929 1,680,508 13,283	40,987 16,095 7,137 1,646,827 1,711,026 13,185	42,126 16,718 7,278 1,677,681 1,743,783 13,330
	16,342 7,783 ,495,279 ,561,987 13,954	15,782 7,531 1,520,875 1,585,122 13,633	15,842 7,336 1,551,138 1,615,020 13,484 TRIAL SECT	15,924 7,275 1,587,766 1,651,651 13,407	15,734 7,194 1,616,929 1,680,508 13,283	16,095 7,137 1,646,827 1,711,026 13,185	16,718 7,278 1,677,681 1,743,783
	7,783 ,495,279 ,561,987 13,954	7,531 1,520,875 1,585,122 13,633 ES BY INDUS	7,336 1,551,138 1,615,020 13,484	7,275 1,587,766 1,651,651 13,407	7,194 1,616,929 1,680,508 13,283	7,137 1,646,827 1,711,026 13,185	7,278 1,677,681 1,743,783 13,330
	,495,279 ,561,987 13,954 URCHASE	1,520,875 1,585,122 13,633 ES BY INDUS	1,551,138 1,615,020 13,484 TRIAL SECT	1,587,766 1,651,651 13,407	1,616,929 1,680,508 13,283	1,646,827 1,711,026 13,185	1,677,681 1,743,783 13,330
	,561,987 13,954 URCHASE	1,585,122 13,633 ES BY INDUS	1,615,020 13,484 TRIAL SECT	1,651,651 13,407 FORS	1,680,508	1,711,026	1,743,783
Provernment Comnensation: Pay Military + Civilian	13,954 URCHASE	13,633 ES BY INDUS	13,484 TRIAL SECT	13,407 FORS	13,283	13,185	13,330
SOUTHWELK COMPENSATION & MYS ATTEMETY 1 CATHERIN	URCHASE	ES BY INDUS	TRIAL SECT	FORS			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	8,609	8,075	8,229	8,369	8,695	8,987	9,299
Research Labs, Computer and Engineering Services	6,650	6,379	6,260	6,090	6,043	6,049	6,158
Communications Equipment and Electronic Components	1,940	1,874	1,853	1,840	1,867	1,894	1,974
Instruments	1,084	1,041	1,050	1,071	1,094	1,108	1,155
Ships and Boats	1,072	1,036	1,028	1,077	1,083	1,124	1,140
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	4,801	4,654	4,675	4,691	4,660	4,780	4,956
Communications Equipment and Electronic Components	1,418	1,405	1,449	1,483	1,535	1,600	1,700
Aerospace	1,261	1,204	1,224	1,218	1,222	1,236	1,267
Wholesale Trade	867	834	839	851	845	998	006
Petroleum Refining Excluding Fuel Oil	642	615	604	599	554	527	543

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	969'9	6,526	6,456	6,290	6,208	6,308	6,566	
Indirect Defense Purchases Resulting from Direct Purchases	2,021	1,942	1,943	1,944	1,915	1,950	2,026	
Indirect Defense Purchases Resulting from Direct Pay	1,302	1,259	1,227	1,218	1,202	1,192	1,214	
Total Nondefense Expenditures	215,602	219,342	223,848	229,351	233,362	237,729	242,373	
Total Output	225,619	229,069	233,473	238,802	242,686	247,177	252,177	
Government Compensation: Pay, Military + Civilian	2,391	2,348	2,329	2,320	2,304	2,291	2,308	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
∞ Aerospace	2,416	2,332	2,309	2,184	2,103	2,105	2,142	
Research Labs, Computer and Engineering Services	699	643	633	617	614	615	628	
Communications Services	312	330	325	328	375	479	649	
Communications Equipment and Electronic Components	271	264	262	249	241	241	246	
Construction	166	155	149	146	146	147	147	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	483	469	472	475	473	486	505	
Communications Equipment and Electronic Components	135	131	131	131	133	135	142	
Communications Services	110	109	111	113	115	121	132	
Wholesale Trade	111	106	107	108	107	109	112	
Aerospace	114	105	104	66	95	94	95	

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	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	4,131	3,904	3,920	3,990	4,038	4,144	4,268
Indirect Defense Purchases Resulting from Direct Purchases	4,188	4,023	3,922	3,872	3,838	4,157	4,336
Indirect Defense Purchases Resulting from Direct Pay	604	583	265	558	551	545	554
Total Nondefense Expenditures	168,225	170,567	173,663	177,473	180,434	183,067	186,028
Total Output	177,144	179,071	182,065	185,888	188,855	191,909	195,181
Government Compensation: Pay, Military + Civilian	889	673	999	662	929	652	658
Total Direct Expenditures (Purchases and Pay)							
Aerospace	1,023	944	826	1,033	1,112	1,169	1,218
Ships and Boats	544	521	518	531	528	547	557
Research Labs, Computer and Engineering Services	477	454	449	445	452	464	485
Real Estate	484	433	420	423	393	407	413
Other Chemicals	183	180	186	187	189	198	213
Indirect Defense Purchases Resulting from Direct Purchases							
Real Estate	2,365	2,267	2,150	2,084	2,057	2,331	2,439
Aerospace	362	358	375	382	386	391	400
Research Labs, Computer and Engineering Services	344	331	335	342	349	367	391
Finance and Insurance	121	117	118	119	115	118	122
Communications Equipment and Electronic Components	108	105	105	106	109	114	120

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	SES					
Total Direct Expenditures (Purchases and Pay)	816	795	795	790	770	775	782	
Indirect Defense Purchases Resulting from Direct Purchases	328	315	314	317	310	316	328	
Indirect Defense Purchases Resulting from Direct Pay	211	204	199	197	195	194	198	
Total Nondefense Expenditures	48,511	48,970	49,966	51,516	52,589	53,646	54,698	
Total Output	49,866	50,283	51,274	52,821	53,864	54,931	900'95	
Government Compensation: Pay, Military + Civilian	359	353	351	350	348	346	348	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Medical Instruments and Supplies	288	281	286	283	280	281	285	
Trucking and Highway Passenger Transit	31	29	28	29	19	24	25	
Construction	25	24	23	23	23	23	23	
Research Labs, Computer and Engineering Services	15	15	14	14	13	13	13	
Education and Nonprofit Organizations	10	10	10	10	10	10	10	
Indirect Defense Purchases Resulting from Direct Purchases								
Other Chemicals	88	85	85	85	84	98	88	
Finance and Insurance	33	31	31	31	29	30	31	
Petroleum Refining Excluding Fuel Oil	28	27	27	77	26	25	27	
Wholesale Trade	21	21	21	21	21	21	22	
Electric Utilities	14	13	13	14	13	14	14	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG/	AGGREGATE MEASURES	SES.					
Total Direct Expenditures (Purchases and Pay)	3,375	3,262	3,204	3,178	3,061	3,042	3,101	
Indirect Defense Purchases Resulting from Direct Purchases	169	671	999	999	658	682	705	
Indirect Defense Purchases Resulting from Direct Pay	109	280	564	558	551	546	556	
Total Nondefense Expenditures	66,944	67,990	896,89	70,204	71,132	72,132	73,169	
Total Output	71,611	72,503	73,401	74,606	75,401	76,402	77,532	
Government Compensation: Pay, Military + Civilian	1,485	1,429	1,401	1,386	1,364	1,347	1,377	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
Communications Services	809	592	585	290	583	554	571	
Research Labs, Computer and Engineering Services	490	475	466	455	451	448	453	
Water Transportation	364	355	347	345	275	309	311	
Construction	66	95	93	91	16	16	92	
Computers	20	49	49	49	49	<b>\$</b>	49	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	353	346	348	350	348	354	364	
Real Estate	120	115	109	105	104	118	123	
Communications Services	35	34	34	34	34	35	38	
Printing and Publishing	26	25	25	24	24	24	25	
Electric Utilities	22	22	22	22	22	23	24	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	14,766	14,354	14,286	14,228	14,132	14,224	14,473	
Indirect Defense Purchases Resulting from Direct Purchases	4,837	4,689	4,727	4,787	4,748	4,904	5,140	
Indirect Defense Purchases Resulting from Direct Pay	4,447	4,312	4,212	4,189	4,153	4,131	4,222	
Total Nondefense Expenditures	629,238	641,086	655,128	672,517	686,521	701,662	716,962	
Total Output	653,303	664,456	996,879	695,736	709,569	724,939	740,815	
Government Compensation: Pay, Military + Civilian	7,315	7,218	7,179	7,159	7,122	7,090	7,120	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	1,982	1,874	1,895	1,900	1,943	1,985	2,047	
Research Labs, Computer and Engineering Services	1,663	1,596	1,576	1,552	1,564	1,586	1,641	
Communications Equipment and Electronic Components	808	786	780	753	740	741	758	
Metal Products	394	381	395	409	418	427	436	
Construction	400	374	358	351	350	353	352	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	1,201	1,165	1,177	1,195	1,206	1,253	1,321	
Communications Equipment and Electronic Components	377	370	375	380	394	411	439	
Wholesale Trade	371	359	364	371	370	381	398	
Finance and Insurance	772	268	270	274	267	277	290	
Communications Services	242	237	239	242	243	254	275	

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	10,418	10,063	9,982	9,839	29,667	9,691	9,838
Indirect Defense Purchases Resulting from Direct Purchases	3,271	3,151	3,166	3,184	3,129	3,216	3,351
Indirect Defense Purchases Resulting from Direct Pay	2,433	2,357	2,302	2,290	2,269	2,256	2,305
Total Nondefense Expenditures	397,097	404,626	414,285	426,701	436,107	445,967	456,312
Total Output	413,215	420,193	429,731	442,010	451,168	461,126	471,801
Government Compensation: Pay, Military + Civilian	4,826	4,719	4,671	4,647	4,609	4,580	4,624
LARGEST Total Direct Expenditures (Purchases and Pay)	P	PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Aerospace	3,523	3,369	3,367	3,263	3,227	3,267	3,344
Research Labs, Computer and Engineering Services	446	431	425	418	421	423	434
Construction	223	208	199	195	194	196	195
Ships and Boats	182	176	175	184	185	192	195
Trucking and Highway Passenger Transit	130	124	121	124	83	103	106
Indirect Defense Purchases Resulting from Direct Purchases							
Aerospace	354	346	352	341	339	342	350
Research Labs, Computer and Engineering Services	322	315	317	322	325	334	349
Wholesale Trade	270	261	264	269	267	274	285
Communications Services	213	216	224	234	241	258	287
Textiles (Except Knitting)	202	183	181	183	160	171	177

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	AGGREG,	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	3,587	3,474	3,418	3,391	3,318	3,303	3,347	
Indirect Defense Purchases Resulting from Direct Purchases	519	501	499	501	492	504	521	
Indirect Defense Purchases Resulting from Direct Pay	1,062	1,026	1,002	966	985	978	866	
Total Nondefense Expenditures	82,161	83,743	85,340	86,992	88,281	809'68	91,098	
Total Output	87,329	88,745	90,258	91,881	93,077	94,393	95,964	
Government Compensation: Pay, Military + Civilian	2,618	2,545	2,512	2,495	2,471	2,452	2,484	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	301	286	277	272	272	273	274	
Research Labs, Computer and Engineering Services	179	171	165	162	162	161	163	
Trucking and Highway Passenger Transit	88	84	82	85	56	70	72	
Electric Utilities	54	53	53	54	54	54	55	
Petroleum Refining Excluding Fuel Oil	52	20	49	48	45	40	42	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	129	125	124	125	125	127	131	
Electric Utilities	73	70	71	72	71	73	9/	
Air Transportation	41	39	4	41	41	42	4	
Eating and Drinking Places	31	29	29	29	27	28	29	
Wholesale Trade	28	27	27	27	27	28	29	

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	526	511	504	498	492	485	489
Indirect Defense Purchases Resulting from Direct Purchases	494	478	486	491	488	497	519
Indirect Defense Purchases Resulting from Direct Pay	250	242	237	236	234	233	238
Total Nondefense Expenditures	55,000	55,804	57,243	58,939	60,075	61,299	62,549
Total Output	56,271	57,036	58,470	60,164	61,289	62,515	63,796
Government Compensation: Pay, Military + Civilian	375	370	368	368	366	365	366
LARGEST Triangle Branch		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS			
Total Direct Enperiorities (1 or chases and 1 of)	•	1	. 1	ì			
Electric Utilities	64	28	24	20	48	4	43
6 Construction	29	27	76	26	26	26	26
Research Labs, Computer and Engineering Services	13	13	12	12	12	12	12
Communications Equipment and Electronic Components	∞	∞	00	7	7	7	7
Food and Tobacco	7	7	7	7	9	9	9
Indirect Defense Purchases Resulting from Direct Purchases							
Communications Equipment and Electronic Components	131	136	147	156	163	172	183
Electric Utilities	98	92	73	89	63	59	8
Wholesale Trade	35	34	34	35	35	35	37
Computers	21	20	20	20	20	20	20
Finance and Insurance	20	19	19	19	19	19	20

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Total Direct Expenditures (Purchases and Pay)	4,235	4,068	4,022	3,999	3,886	3,884	3,944
Indirect Defense Purchases Resulting from Direct Purchases	4,835	4,621	4,598	4,607	4,499	4,577	4,728
Indirect Defense Purchases Resulting from Direct Pay	2,137	2,064	2,003	1,981	1,956	1,938	1,973
Total Nondefense Expenditures	635,916	642,219	651,604	665,185	675,181	686,505	698,176
Total Output	647,124	652,973	662,229	675,774	685,524	906'969	708,823
Government Compensation: Pay, Military + Civilian	2,224	2,172	2,149	2,137	2,119	2,104	2,126
LARGEST	T PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Exnenditures (Purchases and Pav)							

Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	305	294	288	279	275	273	274
S Construction	185	175	169	166	165	166	166
Trucking and Highway Passenger Transit	175	166	162	167	111	139	143
Aerospace	175	161	165	172	184	191	198
Food and Tobacco	154	149	145	142	136	118	123
Indirect Defense Purchases Resulting from Direct Purchases							
Wholesale Trade	424	406	406	409	403	410	423
Finance and Insurance	343	329	328	329	316	325	337
Communications Equipment and Electronic Components	328	311	303	294	292	292	302
Metal Products	310	296	298	303	305	312	321
Petroleum Refining Excluding Fuel Oil	288	275	269	266	246	236	247

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Total Direct Expenditures (Purchases and Pay)	2,836	2,720	2,690	2,684	2,648	2,624	2,679	
Indirect Defense Purchases Resulting from Direct Purchases	2,794	2,670	2,671	2,690	2,659	2,710	2,798	
Indirect Defense Purchases Resulting from Direct Pay	1,068	1,036	1,012	1,008	1,000	966	1,020	
Total Nondefense Expenditures	322,903	325,189	331,385	340,593	346,578	353,266	360,044	
Total Output	329,606	331,619	337,763	346,979	352,891	359,602	366,546	
Government Compensation: Pay, Military + Civilian	1,254	1,211	1,189	1,177	1,158	1,143	1,167	
LARGES	ST PURCHASE	URCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Communications Equipment and Electronic Components	286	279	277	275	277	276	281	
Sesearch Labs, Computer and Engineering Services	284	276	272	266	265	263	267	
	261	240	242	241	246	250	257	
Petroleum Refining Excluding Fuel Oil	64	61	61	61	58	53	26	
Engines and Turbines	99	61	63	73	81	85	85	
Indirect Defense Purchases Resulting from Direct Purchases								
Ferrous Metals	343	321	318	319	318	320	322	
Other Nonferrous Metals	226	215	217	221	226	233	241	
Research Labs, Computer and Engineering Services	205	202	203	205	204	208	215	
Metal Products	200	193	197	202	204	209	216	
Wholesale Trade	157	151	152	154	152	155	161	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	852	813	908	795	789	787	803	
Indirect Defense Purchases Resulting from Direct Purchases	798	763	761	191	754	772	800	
Indirect Defense Purchases Resulting from Direct Pay	421	406	393	388	383	378	384	
Total Nondefense Expenditures	140,729	141,871	143,984	147,448	149,983	152,621	155,307	
Total Output	142,801	143,854	145,945	149,398	151,909	154,558	157,294	
Government Compensation: Pay, Military + Civilian	272	268	266	265	264	262	264	
LARGEST		PURÇHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
	245	237	234	230	231	236	246	
56 Instruments	87	83	84	83	83	85	88	
Metal Products	48	46	47	46	46	45	4	
Research Labs, Computer and Engineering Services	38	35	35	34.	34	35	36	
Construction	33	32	31	30	30	31	31	
Indirect Defense Purchases Resulting from Direct Purchases								
Wholesale Trade	93	8	8	91	8	92	%	
Finance and Insurance	89	65	64	64	62	64	99	
Metal Products	50	48	48	49	50	51	53	
Communications Equipment and Electronic Components	45	4	4	4	45	46	49	
Other Nonferrous Metals	47	4	4	45	46	47	48	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,172	2,107	2,083	2,060	2,031	2,008	2,036	
Indirect Defense Purchases Resulting from Direct Purchases	1,369	1,323	1,331	1,343	1,318	1,343	1,395	
Indirect Defense Purchases Resulting from Direct Pay	681	658	640	635	627	622	634	
Total Nondefense Expenditures	134,055	135,512	137,851	141,029	143,475	146,199	148,971	
Total Output	138,278	139,601	141,907	145,068	147,453	150,173	153,038	
Government Compensation: Pay, Military + Civilian	1,173	1,151	1,143	1,138	1,132	1,127	1,134	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	448	428	428	428	433	430	442	
e Research Labs, Computer and Engineering Services	105	101	66	76	76	96	26	
	<b>0</b> 0	81	77	92	75	9/	9/	
Food and Tobacco	59	57	55	54	52	45	47	
Petroleum Refining Excluding Fuel Oil	52	51	47	34	31	20	23	
Indirect Defense Purchases Resulting from Direct Purchases								
Aerospace	295	291	302	309	317	325	335	
Petroleum Refining Excluding Fuel Oil	108	104	102	101	93	68	93	
Automobile Repairs	92	88	68	91	98	8	94	
Wholesale Trade	84	81	81	82	82	84	87	
Crude Petroleum	78	74	72	71	99	62	99	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES		Vivia de la companya			
Total Direct Expenditures (Purchases and Pay)	2,820	2,742	2,706	2,681	2,626	2,609	2,638	
Indirect Defense Purchases Resulting from Direct Purchases	1,690	1,628	1,629	1,642	1,620	1,645	1,702	
Indirect Defense Purchases Resulting from Direct Pay	1,033	866	973	996	955	949	896	
Total Nondefense Expenditures	216,813	218,914	223,129	228,520	232,028	236,059	240,030	
Total Output	222,358	224,284	228,439	233,810	237,232	241,264	245,340	
Government Compensation: Pay, Military + Civilian	1,888	1,846	1,828	1,820	1,807	1,797	1,813	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)		•						
Research Labs, Computer and Engineering Services	303	299	295	291	291	287	. 290	
Construction	129	119	113	111	110	111	110	
Air Transportation	98	82	81	83	99	74	92	
Apparel and Household Textiles	53	49	48	49	42	43	4	
Petroleum Refining Excluding Fuel Oil	41	39	36	25	21	11	12	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	219	218	220	224	224	227	233	
Petroleum Refining Excluding Fuel Oil	120	116	114	113	105	101	104	
Other Nonferrous Metals	105	100	101	103	106	109	112	
Wholesale Trade	66	95	96	76	96	76	101	
Coal Mining	98	83	82	81	80	80	83	

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG/	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	4,026	3,887	3,832	3,856	3,772	3,755	3,816
Indirect Defense Purchases Resulting from Direct Purchases	2,249	2,169	2,149	2,148	2,047	2,032	2,122
Indirect Defense Purchases Resulting from Direct Pay	945	913	886	882	872	998	882
Total Nondefense Expenditures	214,745	218,796	221,349	225,138	228,274	231,604	235,154
Total Output	221,959	225,759	228,213	232,017	234,958	238,248	241,967
Government Compensation: Pay, Military + Civilian	1,471	1,443	1,431	1,425	1,416	1,408	1,418
LARGES	T PURCHASES BY INDUSTRIAL SECTORS	S BY INDUS	IRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Ships and Boats	116	943	936	686	966	1,036	1,051
Petroleum Refining Excluding Fuel Oil	429	413	401	384	356	310	324
Fire Oil	304	292	288	292	275	254	265
Construction	275	247	231	226	223	227	224
Other Chemicals	127	125	130	131	132	140	150
Indirect Defense Purchases Resulting from Direct Purchases							
Crude Petroleum	540	522	513	507	475	451	481
Petroleum Refining Excluding Fuel Oil	490	472	466	463	431	412	427
Other Chemicals	140	134	134	134	132	134	139
Wholesale Trade	108	104	105	106	106	108	112
Fuel Oil	88	85	83	82	72	74	9/

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,342	2,258	2,238	2,316	2.292	2.359	2 396
Indirect Defense Purchases Resulting from Direct Purchases	381	367	368	371	364	372	387
Indirect Defense Purchases Resulting from Direct Pay	338	328	320	318	316	314	321
Total Nondefense Expenditures	59,315	60,134	61,156	62,513	63,499	64,552	65.680
Total Output	62,376	63,088	64,083	65,519	66,470	67,598	68,784
Government Compensation: Pay, Military + Civilian	979	209	298	593	585	578	588
LARGEST	_	PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Ships and Boats	1,440	1,390	1,381	1,462	1,472	1.534	1.557
Metal Products	19	65	89	71	73	74	76
Trucking and Highway Passenger Transit	58	55	53	55	36	. 4	47
Construction	40	38	37	36	36	36	36
Medical Instruments and Supplies	31	27	79	27	19	23	23
Indirect Defense Purchases Resulting from Direct Purchases							
Communications Equipment and Electronic Components	63	2	99	89	71	73	78
Paper	46	4	4	4	42	42	: 4
Wholesale Trade	34	33	33	33	33	33	34
Finance and Insurance	23	22	22	22	21	21	22
Aerospace	19	20	21	21	21	22	23

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	9,428	9,093	8,980	8,909	8,780	8,805	9,034
Indirect Defense Purchases Resulting from Direct Purchases	3,251	3,138	3,141	3,152	3,111	3,181	3,297
Indirect Defense Purchases Resulting from Direct Pay	1,811	1,752	1,708	1,697	1,680	1,670	1,705
Total Nondefense Expenditures	298,481	303,404	309,244	316,219	321,901	327,884	334,048
Total Output	312,969	317,386	323,073	329,976	335,471	341,539	348,082
Government Compensation: Pay, Military + Civilian	3,886	3,763	3,702	3,669	3,617	3,577	3,642

## LARGEST PURCHASES BY INDUSTRIAL SECTORS

Total Direct Expenditures (Purchases and Pav)							
Research Labs, Computer and Engineering Services	2,234	2,155	2,120	2,066	2,054	2,051	2,087
Aerospace	465	436	445	454	473	487	504
Communications Services	426	420	415	418	424	431	479
Construction	357	337	325	319	319	321	320
Communications Equipment and Electronic Components	338	328	326	322	324	324	332
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	1,613	1,572	1,583	1,592	1,584	1,621	1,679
Wholesale Trade	138	133	133	135	135	138	144
Gas Utilities	140	124	117	109	102	94	94
Automobile Repairs.	116	112	112	114	109	114	118
Electric Utilities	66	96	76	86	76	100	104

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREC	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	7,933	7,572	7,544	7,493	7,530	7,648	7,886	
Indirect Defense Purchases Resulting from Direct Purchases	4,580	4,417	4,443	4,464	4,445	4,599	4,827	
Indirect Defense Purchases Resulting from Direct Pay	1,088	1,048	1,016	1,003	886	7176	992	
Total Nondefense Expenditures	357,346	363,386	370,508	379,378	386,391	393,498	400,827	
Total Output	370,946	376,423	383,511	392,337	399,353	406,720	414,531	
Government Compensation: Pay, Military + Civilian	966	696	926	948	936	927	941	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	2,912	2,776	2,733	2,661	2,650	2,682	2,761	
Aerospace	1,657	1,551	1,584	1,617	1,687	1,749	1.811	
Communications Equipment and Electronic Components	700	<i>LL</i> 2	029	099	664	675	704	
Instruments	356	341	343	346	351	356	370	
Metal Products	254	244	253	260	265	269	274	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	2,102	2,025	2,041	2,050	2,044	2.119	2.222	
Communications Equipment and Electronic Components	401	391	394	398	406	417	439	
Finance and Insurance	202	196	197	200	193	200	209	
Wholesale Trade	196	188	189	192	190	195	203	
Aerospace	149	141	145	142	141	142	144	

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	5,136	4,842	4,864	5,004	5,108	5,157	5,235
Indirect Defense Purchases Resulting from Direct Purchases	3,400	3,242	3,247	3,285	3,252	3,322	3,432
Indirect Defense Purchases Resulting from Direct Pay	1,330	1,284	1,247	1,233	1,217	1,202	1,220
Total Nondefense Expenditures	519,032	516,750	524,449	540,083	547,280	555,667	564,944
Total Output	528,899	526,120	533,809	549,608	556,859	565,351	574,834
Government Compensation: Pay, Military + Civilian	910	988	873	867	855	846	860
LARGE	GEST PURCHASES BY INDUSTRIAL SECTORS	SS BY INDUS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Motor Vehicles	1,411	1,294	1,307	1,417	1,512	1,549	1,578
Other Nonelectrical Machinery	992	746	790	819	836	853	859
Research Labs, Computer and Engineering Services	492	472	463	445	434	430	432
Other Transportation Equipment	433	388	381	408	435	447	453
Metal Products	179	174	184	194	201	207	213
Indirect Defense Purchases Resulting from Direct Purchases							
Metal Products	443	426	433	444	451	463	480
Research Labs, Computer and Engineering Services	355	345	346	342	335	340	347
Wholesale Trade	243	233	233	236	233	237	245
Motor Vehicles	206	187	184	193	197	201	205
Other Chemicals	164	157	158	158	156	159	166

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AGGREGATE MEASURES       1999       2000       2001         2,500       2,425       2,446       2,476       2,495         2,072       1,993       1,995       2,009       1,977         779       759       742       739       736         258,853       262,747       268,169       275,241       280,927         264,207       267,926       273,355       280,467       286,137         441       434       431       429       426         PURCHASES BY INDUSTRIAL SECTORS          806       785       824       867       888	2, 2, 287, 292,	2003 2,558 2,090 755 293,599 299,005 426
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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	4,278	4,117	4,071	4,129	4,051	4,130	4,201
Indirect Defense Purchases Resulting from Direct Purchases	982	941	940	949	933	954	666
Indirect Defense Purchases Resulting from Direct Pay	685	099	641	635	627	621	632
Total Nondefense Expenditures	119,495	120,703	122,653	125,373	127,192	129,121	131,210
Total Output	125,417	126,398	128,283	131,062	132,779	134,800	137,016
Government Compensation: Pay, Military + Civilian	1,466	1,432	1,416	1,408	1,396	1,385	1,401
LARG	EST PURCHASE	FURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Ships and Boats	1,746	1,689	1,672	1,733	1,740	1,795	1,821
	206	197	196	198	207	217	232
Medical Instruments and Sumplies	183	162	157	156	112	131	133
Aproximate	131	123	125	129	136	139	144
Construction	116	107	102	100	66	100	100
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs. Computer and Engineering Services	149	143	146	153	160	171	187
Petroleim Refining Excluding Fuel Oil	96	92	91	8	84	81	85
Wholesale Trade	55	53	53	54	53	54	55
Metal Products	45	43	44	45	46	47	48
Eating and Drinking Places	37	35	34	34	33	33	34
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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	6,627	6,286	6,295	6,336	6,444	6,548	6,718
Indirect Defense Purchases Resulting from Direct Purchases	2,961	2,853	2,862	2,880	2,843	2,912	3,010
Indirect Defense Purchases Resulting from Direct Pay	1,250	1,210	1,178	1,168	1,155	1,147	1,170
Total Nondefense Expenditures	296,069	299,674	305,106	312,691	317,705	323,572	329,702
Total Output	306,908	310,024	315,442	323,075	328,148	334,179	340,601
Government Compensation: Pay, Military + Civilian	1,887	1,837	1,813	1,801	1,780	1,764	1,789
LARG	EST PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	2,358	2,177	2,252	2,366	2,536	2,661	2,771
Research Labs, Computer and Engineering Services	1,457	1,389	1,359	1,304	1,274	1,268	1,279
Metal Products	192	184	186	185	185	182	181
Construction	138	128	123	120	120	121	120
Communications Services	82	79	78	77	75	73	74
Indirect Defense Purchases Resulting from Direct Purchases			•				
Research Labs, Computer and Engineering Services	1,052	1,014	1,015	1,005	983	1,002	1,029
Aerospace	243	242	249	262	274	284	294
Wholesale Trade	178	171	173	175	174	177	183
Finance and Insurance	124	120	119	120	116	120	125
Metal Products	118	114	117	120	122	125	130

## Montana Summary Rounded to Millions of 1999 dollars

	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	KES					
Total Direct Expenditures (Purchases and Pay)	425	416	412	412	405	403	406	
Indirect Defense Purchases Resulting from Direct Purchases	232	222	222	223	216	219	227	
Indirect Defense Purchases Resulting from Direct Pay	213	205	200	198	195	193	196	
Total Nondefense Expenditures	32,429	32,853	33,393	34,148	34,638	35,222	35,829	
Total Output	33,298	33,696	34,226	34,980	35,454	36,037	36,659	
Government Compensation: Pay, Military + Civilian	320	315	314	313	311	310	312	
LARGEST	-	PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	22	21	20	20	20	20	20	
Petroleum Refining Excluding Fuel Oil	15	14	14	14	13	12	13	
Fuel Oil	13	13	13	13	12	11	12	
Electric Utilities	6	6	6	6	6	6	6	
Research Labs, Computer and Engineering Services	9	9	5	5	5	2	S	
Indirect Defense Purchases Resulting from Direct Purchases								
Petroleum Refining Excluding Fuel Oil	24	24	23	23	21	21	22	
Wholesale Trade	22	21	21	21	21	21	22	
Finance and Insurance	13	13	13	13	12	13	13	
Crude Petroleum	13	12	12	12	11	10	11	
Other Nonferrous Metals	13	12	12	12	13	13	13	/

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	1,151	1,124	1,112	1,104	1,093	1.078	1.089	
Indirect Defense Purchases Resulting from Direct Purchases	625	603	009	603	591	602	624	
Indirect Defense Purchases Resulting from Direct Pay	457	443	432	428	423	420	429	
Total Nondefense Expenditures	89,198	90,385	92,087	94,350	95,868	97,695	99,592	
Total Output	91,431	92,555	94,231	96,486	97,975	99,795	101,733	
Government Compensation: Pay, Military + Civilian	177	758	752	750	746	742	747	
LARGEST	ST PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
	147	143	140	138	138	136	138	
Food and Tobacco	93	8	88	98	82	71	75	
Construction	43	41	40	39	39	39	39	
Computers	14	13	13	13	13	13	13	
Aerospace	13	13	13	13	13	13	14	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	106	104	105	106	106	108	111	
Wholesale Trade	09	58	58	59	58	59	61	
Communications Equipment and Electronic Components	59	57	54	53	53	52	54	
Finance and Insurance	49	48	48	48	46	48	20	
Communications Services	36	36	36	36	36	38	41	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG/	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	1,136	1,116	1,107	1,102	1,094	1,091	1,093	
Indirect Defense Purchases Resulting from Direct Purchases	434	420	421	425	418	429	446	
Indirect Defense Purchases Resulting from Direct Pay	762	742	730	726	720	717	733	
Total Nondefense Expenditures	70,223	71,943	74,298	76,811	78,668	80,837	83,238	
Total Output	72,556	74,221	76,557	79,065	80,900	83,074	85,510	
Government Compensation: Pay, Military + Civilian	833	826	824	823	820	818	819	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	105	103	101	66	86	16	76	
Construction	62	57	53	52	52	53	52	
Metal Products	35	34	34	33	33	32	32	
Communications Equipment and Electronic Components	20	19	19	19	19	19	19	
Water and Sanitation	15	15	15	15	15	15	15	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	92	75	75	76	9/	77	78	
Nonferrous Metals Mining	62	09	61	61	62	64	<i>L</i> 9	
Wholesale Trade	30	29	29	29	29	30	31	
Communications Services	26	25	25	25	25	26	28	
Construction	22	21	22	22	21	22	22	

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1997   1998   1999   2000   2001   2002   2003     AGGREGATE MEASURES   1999   2000   2001   2002   2003     Indirect Defense Purchases Resulting from Direct Pay   784   763   784   480   484   482   496   515     Indirect Defense Purchases Resulting from Direct Pay   235   227   221   219   216   214   218     Total Nondectanse Expenditures (Purchases Resulting from Direct Pay   24945   555710   56,794   58,253   59,715   60,838   62,038   63,281     Total Nondectanse Expenditures (Purchases Resulting from Direct Purchases and Pay)   24945   555710   56,794   58,253   59,715   60,838   62,038   63,281     Government Compensation: Pay, Military + Crivilian   269   266   264   265   264   265   264   265   264   265   264   265   264   265   264   265   264   265   264   265   264   265   264   265								
Total Direct Expenditures (Purchases and Pay)         784         763         758         749         744         746           Indirect Defense Purchases Resulting from Direct Pay         478         478         479         744         746           Indirect Defense Purchases Resulting from Direct Pay         235         227         221         219         216         214           Total Nondefense Expenditures         56,461         57,178         56,794         58,263         59,396         60,838           Government Compensation: Pay, Military + Civilian         269         266         265         264         263         261           Government Compensation: Pay, Military + Civilian         269         266         265         264         263         261           Government Compensation: Pay, Military + Civilian         269         266         265         264         263         261           Communications Equipment and Electronic Components         163         159         188         86         85         84           Indirect Defense Purchases Resulting from Direct Purchases         26         26         26         26         26         26         26         26         26         26         26         26         26         26		1997	1998	1999	2000	2001	2002	2003
Total Direct Expenditures (Purchases and Pay) 763 763 749 763 749 769 140 146 146 146 146 146 146 146 146 146 146		AGGREG	ATE MEASU	RES				
Indirect Defense Purchases Resulting from Direct Purchases  1497 478 489 484 482 496  Indirect Defense Purchases Resulting from Direct Pay  125 227 221 219 219 216 214  Total Nondefense Expenditures  126 26,461 57,178 58,253 59,715 60,838 62,038  Government Compensation: Pay, Military + Civilian  1269 266 265 265 264 26,715 60,838 62,038  Government Compensation: Pay, Military + Civilian  127 1281 Direct Expenditures (Purchases and Pay)  128	Total Direct Expenditures (Purchases and Pay)	784	763	758	749	744	746	762
Indirect Defense Purchases Resulting from Direct Pay 54,945 55,710 56,794 58,263 59,396 60,582  Total Nondefense Expenditures (Purchases and Pay)  Communications Equipment and Electronic Components Components Components Communications Equipment and Electronic Components Communications Equipment and Electronic Components Components Communications Equipment and Electronic Components Components Communications Equipment Components Communications Equipment Components Communications Equipment Components Communications Components Communications Components Communications Components Communications Components Communications Communications Components Communications Components Communications Components Communications Components Communications Communications Components Communications Components Communications Components Communications Commu	Indirect Defense Purchases Resulting from Direct Purchases	497	478	480	484	482	496	515
Total Nondefense Expenditures         54,945         55,710         56,794         58,263         59,396         60,582           Total Output         56,461         57,178         58,253         59,715         60,838         62,038           Government Compensation: Pay, Military + Civilian         269         266         265         264         263         56,103           LARGEST PURCHASES BY INDUSTRIAL SECTORS           LARGEST PURCHASES BY INDUSTRIAL SECTORS           Communications Equipment and Bactronic Components         163         159         158         150         150           Research Labs, Computer and Engineering Services         93         90         88         86         85         84           Instruments         64         62         62         61         62         62         62           Onstruction         Onstruction         30         27         28         28         28         28           Indirect Defense Purchases Resulting from Direct Purchases         64         62         62         62         62         62         62         62         62         62         62         62         62         64         62         62         62         62	Indirect Defense Purchases Resulting from Direct Pay	235	727	221	219	216	214	218
Total Output         56,461         57,178         58,253         59,715         60,838         62,038           Government Compensation: Pay, Military + Givilian         IARGEST PURCHASES BY INDUSTRIAL SECTORS         26         264         263         261         261           Total Direct Expenditures (Purchases and Pay)         1.ARGEST PURCHASES BY INDUSTRIAL SECTORS         153         150         150         150           Research Labs, Computer and Electronic Components         163         159         158         86         85         84           Instruments         Construction         30         27         26<	Total Nondefense Expenditures	54,945	55,710	56,794	58,263	59,396	60,582	61,785
GEST PURCHASES BY INDUSTRIAL SECTORS     264     265     264     263     261       163     159     158     150     150       93     90     88     86     85     84       64     62     62     62     62       30     27     26     26     26       26     26     26     26     26       26     26     26     26     26       26     26     26     26     26       26     26     26     26     26       26     26     26     26     26       26     26     26     26     26       26     26     26     26     26       26     26     66     65     67       67     65     66     65     67       67     65     66     65     67       28     27     28     27     28       24     23     23     23     23       23     23     23     23     24	Total Output	56,461	57,178	58,253	59,715	60,838	62,038	63,281
GEST PURCHASES BY INDUSTRIAL SECTORS         163       159       158       150       150       1         93       90       88       86       85       84         64       62       62       61       62       62         30       27       26       26       26       26         26       26       27       28       29         70       68       69       70       72       75         67       65       66       66       65       67         31       29       30       31       32         28       27       28       28         27       28       27       28         28       27       28       27         24       23       23       23       24	Government Compensation: Pay, Military + Civilian	269	266	265	264	263	261	262
163     159     158     153     150     150     150       93     90     88     86     85     84       64     62     62     61     62     62       30     27     26     26     26       26     27     28     29       70     68     69     70     72     75       67     65     66     66     65     67       31     29     30     31     32       28     27     28     28       24     23     23     23     23								\
93     90     88     86     85       64     62     62     61     62     62       30     27     26     26     26       26     26     26     26     26       26     26     26     26     26       70     68     69     70     72     75       67     65     66     66     65     67       31     29     30     31     32       28     27     28     24       24     23     23     23     23	Communications Equipment and Electronic Components	163	159	158	153	150	150	153
64     62     62     61     62     62       30     27     26     26     26     26       26     26     27     28     29       70     68     69     70     72     75       67     65     66     66     65     67       31     29     30     31     32       28     27     28     27     28       24     23     23     23     23     23	Research Labs, Computer and Engineering Services	93	06	88	98	85	84	98
30     27     26     26     26     26       26     26     26     26     26       26     26     29     29     29       70     68     69     70     72     75       67     65     66     66     65     67       31     29     30     31     32       28     27     28     27     28       24     23     23     23     23	Instruments	64	62	62	61	62	62	63
26     26     27     28     28     29       70     68     69     70     72     75       67     65     66     66     65     67       31     29     30     31     32       28     27     28     27     28       24     23     23     23     23     24	Construction	30	27	26	26	26	26	26
70     68     69     70     72     75       67     65     66     66     65     67       31     29     30     30     31     32       28     27     27     28     27     28       24     23     23     23     23     24	Other Nonelectrical Machinery	26	26	27	28	28	29	29
70         68         69         70         72         75           67         65         66         66         65         67           31         29         30         31         32           28         27         28         27         28           24         23         23         23         24	Indirect Defense Purchases Resulting from Direct Purchases							
r and Engineering Services 67 65 66 65 67 67 and Engineering Services 67 67 67 68 66 65 67 67 81 32 28 27 28 24 23 23 23 24	Communications Equipment and Electronic Components	70	89	69	70	72	75	79
31     29     30     30     31     32       28     27     27     28     27     28       uinery     24     23     23     23     23     24	Research Labs, Computer and Engineering Services	<i>L</i> 9	65	99	99	65	<i>L</i> 9	69
28     27     24     23     23     23     23     24	Other Nonferrous Metals	31	29	30	30	31	32	33
24 23 23 23 24	Wholesale Trade	28	27	27	28	27	28	29
	Other Nonelectrical Machinery	24	23	23	23	23	24	24

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	660'9	5,871	5,796	5,764	5,597	5,768	6,057	
Indirect Defense Purchases Resulting from Direct Purchases	3,857	3,697	3,704	3,752	3,724	3,849	4,048	
Indirect Defense Purchases Resulting from Direct Pay	1,467	1,415	1,374	1,357	1,340	1,326	1,350	
Total Nondefense Expenditures	427,521	433,061	440,488	450,188	457,825	465,985	474,380	
Total Output	438,942	444,041	451,358	461,058	468,485	476,925	485,832	
Government Compensation: Pay, Military + Civilian	1,712	1,655	1,626	1,610	1,586	1,566	1,598	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	1,419	1,352	1,344	1,352	1,402	1,459	1,553	
Water Transportation	516	502	492	491	386	433	438	
Communications Equipment and Electronic Components	372	360	357	345	341	343	353	
Aerospace	349	334	333	321	315	318	324	
Instruments	267	254	255	252	251	254	262	
Indirect Defense Purchases Resulting from Direct Purchases					•			
Research Labs, Computer and Engineering Services	1,024	286	1,004	1,042	1,081	1,153	1,250	
Wholesale Trade	345	331	332	335	332	339	351	
Other Chemicals	257	243	241	240	235	238	247	
Communications Services	240	232	232	232	232	240	259	
Finance and Insurance	211	203	203	205	198	205	214	

Summary	Rounded to Millions of 1000 dollars
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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,322	2,251	2,220	2,192	2,157	2,137	2,161	
Indirect Defense Purchases Resulting from Direct Purchases	925	905	916	925	912	929	696	
Indirect Defense Purchases Resulting from Direct Pay	622	601	586	582	576	573	586	
Total Nondefense Expenditures	75,190	76,647	78,362	80,464	81,924	83,656	85,665	
Total Output	79,059	80,405	82,084	84,163	85,569	87,294	89,380	
Government Compensation: Pay, Military + Civilian	1,304	1,276	1,263	1,257	1,247	1,239	1,250	
LARGEST	, ,	PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	456	438	430	415	407	404	407	
Construction Construction	149	141	135	133	132	133	133	
Finance and Insurance	58	99	55	56	54	49	52	
Aerospace	59	26	56	. 56	57	58	09	
Communications Equipment and Electronic Components	55	53	53	53	53	54	55	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	329	320	321	320	314	319	327	
Communications Equipment and Electronic Components	120	125	135	143	151	160	173	
Crude Petroleum	94	92	92	91	98	81	85	
Wholesale Trade	32	31	32	32	32	32	34	
Petroleum Refining Excluding Fuel Oil	. 28	28	27	28	26	26	27	

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		1997	1998	1999	2000	2001	2002	2003	
		AGGREG	AGGREGATE MEASURES	RES					
To	Total Direct Expenditures (Purchases and Pay)	8,089	7,758	7,723	7,680	7,581	7,657	7,858	
Ind	Indirect Defense Purchases Resulting from Direct Purchases	6,210	5,962	5,961	6,003	5,909	090'9	6,298	
Ind	Indirect Defense Purchases Resulting from Direct Pay	2,554	2,454	2,371	2,331	2,289	2,254	2,282	
To	Total Nondefense Expenditures	859,585	868,396	880,028	896,752	908,431	921,690	935,548	
To	Total Output	876,440	884,572	896,085	912,767	924,212	937,663	951,988	
B	Government Compensation: Pay, Military + Civilian	1,900	1,855	1,834	1,823	1,807	1,794	1,814	
	LARGEST	-	PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS				
To	Total Direct Expenditures (Purchases and Pay)								
	Research Labs, Computer and Engineering Services	1,115	1,063	1,048	1,031	1,039	1,059	1,099	
109	Aerospace	1,067	<i>L</i> 66	1,015	1,033	1,075	1,109	1,147	
9	Communications Equipment and Electronic Components	696	942	933	905	888	893	918	
	Instruments	ZTT	738	748	292	786	800	838	
	Metal Products	422	407	421	432	440	446	453	
ĬĬ	Indirect Defense Purchases Resulting from Direct Purchases								
	Research Labs, Computer and Engineering Services	805	776	783	794	801	837	885	
	Finance and Insurance	730	709	712	726	705	730	765	
	Wholesale Trade	555	530	529	532	524	533	552	
	Communications Equipment and Electronic Components	411	402	406	414	427	441	467	
	Communications Services	320	309	307	307	304	314	336	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	6,335	6,150	6,080	6,042	5,927	5,930	5,976	
Indirect Defense Purchases Resulting from Direct Purchases	2,852	2,732	2,737	2,766	2,703	2,785	2,891	
Indirect Defense Purchases Resulting from Direct Pay	2,349	2,277	2,224	2,213	2,194	2,183	2,233	
Total Nondefense Expenditures	379,744	385,351	393,787	405,001	413,538	422,446	431,808	
Total Output	391,283	396,513	404,831	416,025	424,365	433,347	442,912	
Government Compensation: Pay, Military + Civilian	4,564	4,487	4,458	4,445	4,425	4,408	4,429	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	285	268	259	255	257	266	275	
Research Labs, Computer and Engineering Services	244	234	228	221	218	216	216	
Instruments	104	101	100	86	86	86	100	
Wholesale Trade	105	100	86	94	06	87	88	
Electric Industrial Appliances and Distribution Equipment	109	94	98	82	79	77	75	
Indirect Defense Purchases Resulting from Direct Purchases								
Wholesale Trade	218	211	214	218	217	223	232	
Communications Equipment and Electronic Components	195	190	190	190	194	198	209	
Textiles (Except Knitting)	194	175	172	173	151	161	165	
Research Labs, Computer and Engineering Services	176	171	170	170	168	170	174	
Other Chemicals	149	143	145	146	145	149	156	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	SES					
Total Direct Expenditures (Purchases and Pay)	703	169	683	682	683	709	753	
Indirect Defense Purchases Resulting from Direct Purchases	223	214	213	214	208	210	218	
Indirect Defense Purchases Resulting from Direct Pay	246	237	231	230	Z27	226	230	
Total Nondefense Expenditures	28,379	28,787	29,258	29,961	30,455	30,997	31,525	
Total Output	29,551	29,930	30,385	31,087	31,573	32,143	32,726	
Government Compensation: Pay, Military + Civilian	463	454	450	449	447	446	448	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
Communications Services	69	73	72	73	84	108	148	
Construction	92	62	09	59	59	59	59	
Electric Utilities	26	26	26	26	27	26	27	
Trucking and Highway Passenger Transit	13	12	12	12	∞	10	11	
Apparel and Household Textiles	13	11	11	11	6	10	10	
Indirect Defense Purchases Resulting from Direct Purchases								
Electric Utilities	35	34	35	35	35	36	37	
Crude Petroleum	27	26	25	25	23	22	23	
Wholesale Trade	24	23	23	23	23	24	24	
Gas Utilities	16	16	16	16	15	15	16	
Communications Services	12	12	12	12	12	12	13	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	6,676	6,367	6,304	6,287	6,222	6,205	6,338	
Indirect Defense Purchases Resulting from Direct Purchases	5,360	5,121	5,122	5,150	5,084	5,178	5,348	
Indirect Defense Purchases Resulting from Direct Pay	2,150	2,076	2,018	1,997	1,971	1,952	1,986	
Total Nondefense Expenditures	618,456	623,123	634,375	650,727	661,744	673,929	685,984	
Total Output	632,643	636,689	647,819	664,162	675,022	687,265	159,669	
Government Compensation: Pay, Military + Civilian	2,862	2,763	2,711	2,683	2,639	2,604	2,661	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	983	949	934	806	106	868	912	
Aerospace 11	988	829	845	865	903	931	964	
Other Transportation Equipment	338	301	295	326	. 357	370	375	
Trucking and Highway Passenger Transit	174	165	161	166	110	138	141	
Other Nonelectrical Machinery	149	.146	152	156	158	159	160	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	709	692	<b>L69</b>	700	695	710	734	
Ferrous Metals	443	414	410	411	410	413	416	
Metal Products	418	400	404	413	416	426	439	
Wholesale Trade	343	328	328	332	327	332	342	
Other Chemicals	271	260	261	262	259	265	277	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	3,382	3,279	3,239	3,225	3,179	3,161	3,207	
Indirect Defense Purchases Resulting from Direct Purchases	1,866	1,798	1,791	1,799	1,745	1,758	1,830	
Indirect Defense Purchases Resulting from Direct Pay	1,126	1,088	1,060	1,052	1,041	1,033	1,054	
Total Nondefense Expenditures	165,237	167,850	170,441	174,269	177,177	180,346	183,508	
Total Output	171,611	174,016	176,532	180,347	183,142	186,299	189,599	
Government Compensation: Pay, Military + Civilian	2,462	2,399	2,370	2,355	2,332	2,314	2,342	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	218	213	210	206	206	204	206	
Construction	177	168	162	159	159	160	160	
Aerospace	154	145	148	152	160	164	170	
Petroleum Refining Excluding Fuel Oil	<i>L</i> 9	49	63	64	09	56	58	
Automobile Repairs	09	57	99	99	43	20	51	
Indirect Defense Purchases Resulting from Direct Purchases								
Crude Petroleum	345	333	325	321	300	284	302	
Automobile Repairs	252	244	244	248	236	247	256	
Research Labs, Computer and Engineering Services	158	155	156	159	159	161	166	
Petroleum Refining Excluding Fuel Oil	129	124	122	122	113	109	113	
Communications Equipment and Electronic Components	79	92	75	75	9/	78	82	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	747	725	717	712	703	<i>L</i> 69	700	
Indirect Defense Purchases Resulting from Direct Purchases	1,105	1,076	1,094	1,113	1,111	1,147	1,201	
Indirect Defense Purchases Resulting from Direct Pay	563	547	532	528	522	518	529	
Total Nondefense Expenditures	159,773	161,892	165,232	169,623	172,701	176,147	179,714	
Total Output	162,190	164,243	167,578	171,978	175,039	178,512	182,146	
Government Compensation: Pay, Military + Civilian	540	533	531	529	526	523	525	
LARGEST	T PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Construction	35	31	29	29	28	29	28	
Research Labs, Computer and Engineering Services	26	24	24	23	22	22	22	
Computers	22	21	20	19	19	18	18	
Instruments	16	16	16	16	17	17	18	
Communications Equipment and Electronic Components	12	12	11	11	п	11	111	
Indirect Defense Purchases Resulting from Direct Purchases								
Communications Equipment and Electronic Components	257	262	278	290	304	321	345	
Wholesale Trade	103	66	100	102	101	104	108	
Finance and Insurance	69	99	99	99	64	99	89	
Other Nonferrous Metals	63	09	61	62	64	99	89	
Lumber	49	46	45	45	4	4	45	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	6,642	6,348	6,274	6.183	6.068	5.995	6.118	
Indirect Defense Purchases Resulting from Direct Purchases	5,043	4,825	4,817	4,843	4,756	4.847	5.009	
Indirect Defense Purchases Resulting from Direct Pay	2,180	2,108	2,050	2,029	2,006	1,988	2,026	
Total Nondefense Expenditures	610,774	616,695	625,818	639,057	648,523	628,639	669,132	
Total Output	624,639	629,977	638,959	652,113	661,353	671,470	682,285	
Government Compensation: Pay, Military + Civilian	2,760	2,662	2,611	2,583	2,538	2,502	2,559	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
	892	826	839	811	798	794	802	
Metal Products	864	830	850	864	876	883	893	
	285	265	272	281	297	308	320	
Fuel Oil	226	216	201	155	134	79	77	
Medical Instruments and Supplies	218	210	213	211	201	206	209	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	644	625	627	625	615	627	645	
Ferrous Metals	425	397	393	393	392	394	396	
Wholesale Trade	333	320	321	325	322	329	341	
Petroleum Refining Excluding Fuel Oil	309	295	288	284	262	250	259	
Communications Equipment and Electronic Components	296	292	298	307	319	331	350	

Island Summary	Rounded to Millione of 1000 dollar
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AGGREGATE MEASURES   1597   1998   1999   2000   2001   2002   2003     AGGREGATE MEASURES   1,587   1,568   1,544   1,574   1,575     Indirect Defense Purchases Resulting from Direct Pay   459   459   459   459   459   459   459   459   459   459   450   459   450   459   450   450   450     Total Omput   49,664   50,265   51,050   52,138   52,872   53,701   54,577     Government Compensation: Pay, Military + Civilian   518   50,265   51,050   52,138   52,872   53,701   54,577     Government Compensation: Pay, Military + Civilian   518   500   50,265   51,050   52,138   52,872   53,701   54,577     Government Compensation: Pay, Military + Civilian   518   500   500   500   500   500     Medical Instruments and Supplies   460   483   489   489   489   480   480   480     Medical Instruments and Supplies   500   500   500   500   500   500     Instruments Communications Services   500   500   500   500   500     Instruments   600   6								
AGGREGATE MEASURES         1,653       1,587       1,568       1,544       1,544         459       442       446       454       453       471         459       442       446       454       455       471         47,281       47,966       48,762       49,862       50,621       51,437         49,664       50,265       51,050       52,138       53,701         518       502       494       490       483       478         49,664       50,265       51,050       52,138       53,701         518       502       494       490       483       478         49,664       483       489       489       489       489       489         46       483       489		1997	1998	1999	2000	2001	2002	2003
1,653 1,595 1,587 1,568 1,544 1,544 459 442 446 454 455 471 272 263 257 255 251 47,281 47,966 48,762 49,862 50,621 51,437 518 50,265 51,050 52,138 52,872 53,701 518 502 494 490 483 483 483 6GEST PURCHASES BY INDUSTRIAL SECTORS  496 483 493 489 483 487 529 250 248 249 256 262 529 250 248 249 366 262 529 483 483 483 487 66 483 484 44 43 101 103 105 106 529 250 248 249 256 262 520 250 248 249 256 256 520 250 248 249 256 256 520 250 250 250 250 520 250 250 250 250 520 250 250 250 250 520 250 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 250 520 250 250 520 250 250 520 250 250 520 250 250 520 250 250 520 250 250 520 250 250 520 250 250 520 250 250 520 250 5		AGGREG	ATE MEASU	RES	R.			
459         442         446         454         455         471           272         263         257         255         252         251           47,281         47,966         48,762         49,862         50,621         51,437           49,664         50,265         51,050         52,138         52,872         53,701           518         502         494         490         483         478           GEST PURCHASES BY INDUSTRIAL SECTORS           494         499         483         487           529         248         249         487         487           529         248         489         487         487           74         68         63         52         48         36           74         68         63         52         48         36           46         44         43         42         42         42           187         182         28         29         25         25           20         25         25         25         25         25           21         20         20         20         2	Total Direct Expenditures (Purchases and Pay)	1,653	1,595	1,587	1,568	1,544	1,544	1,575
272       263       257       255       251         47,281       47,966       48,762       49,862       50,621       51,437         49,664       50,265       51,050       52,138       52,872       53,701         518       502       494       490       483       478         GEST PURCHASES BY INDUSTRIAL SECTORS         496       483       493       489       483       487         259       250       248       249       256       262         105       100       101       103       105       106         74       68       63       52       48       36         46       44       43       42       42       42         46       44       43       29       29       207         30       28       29       25       25       25         20       20       20       20       20       20         20       20       20       20       20       20         30       20       20       20       20       20         21       20       20       20       20	Indirect Defense Purchases Resulting from Direct Purchases	459	442	446	454	455	471	495
47,281         47,966         48,762         49,862         50,621         51,437           49,664         50,265         51,050         52,138         52,872         53,701           518         494         490         483         478           GEST PURCHASES BY INDUSTRIAL SECTORS           494         499         489         483         478           259         250         248         249         483         487           105         100         101         103         105         106           74         68         63         52         48         36           46         44         43         42         42         42           46         44         43         42         42         42           87         187         187         191         197         207           187         28         29         25         25           29         25         25         25           20         20         20         20           21         20         20         20           21         20         20         20	Indirect Defense Purchases Resulting from Direct Pay	272	263	257	255	252	251	256
49,664         50,265         51,050         52,138         52,872         53,701           518         502         494         490         483         478           GEST PURCHASES BY INDUSTRIAL SECTORS           496         483         489         489         483         487           259         250         248         249         256         262           105         100         101         103         106         106           74         68         63         52         48         36           46         44         43         42         42         42           46         44         43         42         42         42           46         44         43         42         42         42           46         44         43         42         42         42           46         44         43         42         42         42           46         44         43         23         23         22           26         28         28         29         26         25           27         20         20         20	Total Nondefense Expenditures	47,281	47,966	48,762	49,862	50,621	51,437	52,251
GEST PURCHASIES BY INDUSTRIAL SECTORS       494       490       483       478         496       483       489       483       487         259       250       248       249       256       262         105       100       101       103       105       106         74       68       63       52       48       36         46       44       43       42       42       42         187       182       185       191       197       207         30       28       29       29       29       25         21       20       20       20       20       20         21       20       20       20       20       20         21       20       20       20       20       20         21       20       20       20       20       20         21       20       19       19       20       20       20	Total Output	49,664	50,265	51,050	52,138	52,872	53,701	54,577
GEST PURCHASES BY INDUSTRIAL SECTORS         496       483       493       489       483       487         259       250       248       249       256       262         105       100       101       103       105       106         74       68       63       52       48       36         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         45       185       185       191       197       207         30       28       28       29       29       25         26       25       25       25       25         20       19       19       19       20       20         20       19       19       19       20       20         20       20       20       20       20       20         20       19 </td <td>Government Compensation: Pay, Military + Civilian</td> <td>518</td> <td>205</td> <td>464</td> <td>490</td> <td>483</td> <td>478</td> <td>486</td>	Government Compensation: Pay, Military + Civilian	518	205	464	490	483	478	486
496       483       489       489       483       487         259       250       248       249       256       262         105       100       101       103       105       106         74       68       63       52       48       36         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         47       43       28       29       29       30         26       25       25       25       25         27       20       20       20       20         20       19       19       19       20       20         20       19       19       19       20       20			S BY INDUST	RIAL SECTO	ORS			
496       483       483       487         259       250       248       249       256       262         105       100       101       103       105       106         74       68       63       52       48       36         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         46       44       43       42       42       42         40       42       42       42       42       42         40       43       42       42       42       42         40       28       28       29       29       30         40       28       28       29       25       25         41       19       19       19       20       20         42       42       42       42       42       42       42	Medical Laboration (a unchases and Lay)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•		•		1	
259     250     248     249     256     262       105     100     101     103     105     106       74     68     63     52     48     36       46     44     43     42     42     42       45     42     42     42     42       46     44     43     42     42     42       46     44     43     42     42     42       40     42     42     42     42       40     42     42     42     42       40     43     42     42     42       42     42     42     42     42       42     42     42     42     42       42     42     42     42     42       43     185     185     191     197     207       44     43     42     42     42     42       45     28     29     29     30       46     20     20     20     20       47     42     42     42     42       48     28     29     25     25       49     19     19     20     20	ivieucai insuuments and Supplies	490	483	493	489	483	487	493
105     100     101     103     105     106       74     68     63     52     48     36       46     44     43     42     42     42       45     42     42     42     42       40     42     42     42     42       40     43     42     42     42       40     42     42     42     42       40     182     185     191     197     207       30     28     29     29     30       24     25     25     25     25       25     25     25     25     25       20     19     19     19     20     20	Research Labs, Computer and Engineering Services	259	250	248	249	256	262	276
74         68         63         52         48         36           46         44         43         42         42         42           46         44         43         42         42         42           46         44         43         42         42         42           46         45         185         191         197         207           30         28         28         29         20         30           26         25         25         25         25         25           20         20         20         20         20         20           20         19         19         19         20         20	Instruments	105	100	101	103	105	106	111
46     44     43     42     42     42       187     182     185     191     197     207       30     28     29     29     30       26     25     25     25     25       21     20     20     20     20       20     19     19     19     20     20	Communications Services	74	89	63	52	48	36	35
187     182     185     191     197     207       30     28     28     29     29     30       26     25     25     25     25       21     20     20     20     20       20     19     19     20     20	Construction	46	44	43	42	42	42	42
uter and Engineering Services     187     182     185     191     197     207       als     30     28     29     29     30       26     25     25     25     25       21     20     20     20     20       20     19     19     20     20	Indirect Defense Purchases Resulting from Direct Purchases							
als     30     28     29     29     30       26     25     25     25     25     25       21     20     20     20     20     20       20     19     19     20     20     20	Research Labs, Computer and Engineering Services	187	182	185	191	197	207	222
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Other Nonferrous Metals	30	28	28	29	29	30	31
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Wholesale Trade	26	25	25	25	25	25	26
20 19 19 20 20	Finance and Insurance	21	20	20	20	50	20	21
	Metal Products	20	19	19	19	20	20	21

South Carolina Summary Rounded to Millions of 1999 dollars

		or to introduce of 1777 dollars	Common				
	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	4,023	3,899	3,854	3,845	3,677	3,716	3,750
Indirect Defense Purchases Resulting from Direct Purchases	1,577	1,506	1,505	1,517	1,486	1,530	1,587
Indirect Defense Purchases Resulting from Direct Pay	1,221	1,182	1,154	1,147	1,136	1,129	1,153
Total Nondefense Expenditures	191,602	194,512	198,453	203,503	207,700	211,809	216,257
Total Output	198,424	201,100	204,967	210,011	214,000	218,184	222,749
Government Compensation: Pay, Military + Civilian	2,469	2,429	2,412	2,405	2,391	2,380	2,393
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
	365	346	338	347	229	287	293
Research Labs, Computer and Engineering Services	242	230	222	215	212	211	211
Construction	181	171	165	162	162	162	162
Finance and Insurance	91	88	87	88	85	78	81
Aerospace	74	89	71	75	81	85	68
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	175	168	166	166	164	166	170
Other Chemicals	171	163	163	164	163	167	175
Textiles (Except Knitting)	140	126	124	124	108	115	119
Wholesale Trade	79	92	11	78	11	79	81
Communications Equipment and Electronic Components	77	75	77	78	82	98	92

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South Dakota Su	Rounded to Millions of

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG,	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	160	719	754	786	736	646	647	
Indirect Defense Purchases Resulting from Direct Purchases	1,974	1,933	2,099	2,201	2,108	1,777	1,820	
Indirect Defense Purchases Resulting from Direct Pay	180	175	170	169	167	165	169	
Total Nondefense Expenditures	32,092	32,562	33,252	34,238	34,932	35,677	36,450	
Total Output	35,007	35,388	36,275	37,393	37,943	38,266	39,086	
Government Compensation: Pay, Military + Civilian	278	274	272	271	270	269	270	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS				
Total Direct Expenditures (Purchases and Pay)								
Real Estate	345	316	356	390	350	262	260	
Construction 811	26	25	24	24	24	24	24	
Medical Instruments and Supplies	19	17	16	16	12	14	14	
Research Labs, Computer and Engineering Services	17	16	15	15	15	15	15	
Communications Equipment and Electronic Components	13	12	12	12	12	13	13	
Indirect Defense Purchases Resulting from Direct Purchases								
Real Estate	1,684	1,655	1,820	1,921	1,832	1,502	1,535	
Communications Equipment and Electronic Components	4	42	43	4	46	49	53	
Automobile Repairs	33	30	29	25	25	20	19	
Wholesale Trade	22	21	21	22	21	22	23	
Noncompetitive Imports	18	18	19	20	19	16	17	

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	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	3,160	3,038	2,998	2,983	2,758	2,832	2,856
Indirect Defense Purchases Resulting from Direct Purchases	2,031	1,946	1,950	1,966	1,927	1,979	2,049
Indirect Defense Purchases Resulting from Direct Pay	986	926	932	925	916	606	928
Total Nondefense Expenditures	271,537	275,063	281,572	290,360	296,456	303,147	309,695
Total Output	277,720	281,009	287,458	296,240	302,064	308,875	315,536
Government Compensation: Pay, Military + Civilian	1,184	1,172	1,167	1,164	1,158	1,153	1,157
LARG	GEST PURCHASES BY INDUSTRIAL SECTORS	ES BY INDUS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Air Transportation	761	726	716	730	581	959	<b>L99</b>
Research Labs, Computer and Engineering Services	414	394	385	367	356	353	353
Apparel and Household Textiles	214	193	188	189	145	163	167
Metal Products	107	102	102	101	100	86	16
Other Chemicals	98	83	83	83	82	08	81
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	299	288	287	283	274	279	284
Wholesale Trade	163	157	158	160	159	162	168
Other Chemicals	159	151	151	152	150	153	160
Metal Products	138	133	135	139	140	144	148
Other Nonferrous Metals	106	101	102	104	106	109	112

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	1997	1998	1999	2000	2001	2002	2003	
	AGGRE	AGGREGATE MEASURES	JRES					
Total Direct Expenditures (Purchases and Pay)	20,440	19,742	19,599	19,558	19,278	19,277	19,627	
Indirect Defense Purchases Resulting from Direct Purchases	11,637	11,278	11,320	11,404	11,157	11,327	11,841	
Indirect Defense Purchases Resulting from Direct Pay	5,178	5,010	4,886	4,853	4,802	4,768	4,868	
Total Nondefense Expenditures	974,809	992,828	1,011,138	1,034,656	1,052,707	1,071,866	1,092,029	
Total Output	1,012,065	1,028,859	1,046,946	1,070,473	1,087,946	1,107,239	1,128,366	
Government Compensation: Pay, Military + Civilian	9,254	9,082	6,007	8,970	8,910	8,861	8,926	
LARG	LARGEST PURCHAS	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	FORS				
Total Direct Expenditures (Purchases and Pay)								
Aerospace	3,135	2,950	2,997	3,035	3,137	3,225	3,334	
Research Labs, Computer and Engineering Services	2,128	2,039	2,006	1,955	1,947	1,958	2,006	
Petroleum Refining Excluding Fuel Oil	859	828	816	828	780	722	760	
Fuel Oil	191	738	727	738	694	640	699	
Construction	755	711	684	672	0/9	674	673	
Indirect Defense Purchases Resulting from Direct Purchases								
Crude Petroleum	1,578	1,530	1,502	1,484	1,391	1,320	1,404	
Research Labs, Computer and Engineering Services	1,536	1,488	1,498	1,506	1,501	1,547	1,614	
Petroleum Refining Excluding Fuel Oil	1,072	1,036	1,024	1,019	945	200	943	
Communications Equipment and Electronic Components	951	962	1,010	1,051	1,095	1,149	1,226	
Wholesale Trade	545	524	526	533	527	537	556	

Utah Summary
Rounded to Millions of 1999 dollars

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	2,015	1,918	1,875	1,854	1,818	1,799	1,836	
Indirect Defense Purchases Resulting from Direct Purchases	1,109	1,069	1,074	1,081	1,070	1,095	1,136	
Indirect Defense Purchases Resulting from Direct Pay	564	546	531	527	521	517	528	
Total Nondefense Expenditures	115,250	116,962	119,197	121,782	123,936	126,239	128,539	
Total Output	118,939	120,495	122,678	125,245	127,346	129,651	132,039	
Government Compensation: Pay, Military + Civilian	1,119	1,079	1,059	1,048	1,030	1,017	1,039	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	291	273	263	256	255	257	262	
1 Metalworking Machinery	113	94	98	82	79	11	9/	
Construction	82	11	74	73	73	73	73	
Petroleum Refining Excluding Fuel Oil	63	09	59	99	57	52	55	
Fuel Oil	28	55	55	55	52	48	20	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	210	199	196	197	197	203	211	
Aerospace	142	140	145	143	144	148	152	
Communications Equipment and Electronic Components	82	82	98	68	92	95	100	
Wholesale Trade	58	56	56	57	26	58	9	
Petroleum Refining Excluding Fuel Oil	55	53	52	52	49	47	49	

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	189	184	184	185	185	186	190	
Indirect Defense Purchases Resulting from Direct Purchases	264	261	268	275	279	289	305	
Indirect Defense Purchases Resulting from Direct Pay	114	110	107	107	106	105	108	
Total Nondefense Expenditures	27,167	27,686	28,413	29,296	29,961	30,647	31,368	
Total Output	27,734	28,241	28,973	29,863	30,531	31,228	31,970	
Government Compensation: Pay, Military + Civilian	100	66	86	86	26	96	6	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS				
Total Direct Expenditures (Purchases and Pay)								
Metal Products	24	24	25	27	27	28	29	
Aerospace	21	20	20	21	21	22	22	
Research Labs, Computer and Engineering Services	20	19	19	18	17	17	17	
Electric Industrial Appliances and Distribution Equipment	4	4	4	4	4	4	5	
Construction	4	4	4	3	æ	æ	3	
Indirect Defense Purchases Resulting from Direct Purchases								
Communications Equipment and Electronic Components	101	103	110	116	121	127	135	
Aerospace	18	17	18	18	18	19	19	
Wholesale Trade	15	15	15	15	15	15	16	
Research Labs, Computer and Engineering Services	15	14	14	14	13	14	14	
Printing and Publishing	11	10	10	10	10	10	10	

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		1997	1998	1999	2000	2001	2002	2003
		AGGREG/	AGGREGATE MEASURES	RES				
Tota	Total Direct Expenditures (Purchases and Pay)	24,535	23,743	23,388	23,207	22,487	22,651	23,144
Indi	Indirect Defense Purchases Resulting from Direct Purchases	6,785	6,571	6,592	6,647	6,448	6,679	6,916
Indi	Indirect Defense Purchases Resulting from Direct Pay	4,967	4,806	4,689	4,662	4,615	4,587	4,686
Tot	Total Nondefense Expenditures	497,200	507,058	518,139	530,772	541,168	550,796	561,045
Tot	Total Output	533,484	542,174	552,805	565,284	574,714	584,709	595,786
Gov	Government Compensation: Pay, Military + Civilian	13,095	12,725	12,548	12,456	12,313	12,202	12,381
	LARGE	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECT	ORS			
Tot	Total Direct Expenditures (Purchases and Pay)							
	Research Labs, Computer and Engineering Services	4,623	4,488	4,413	4,311	4,288	4,259	4,314
12	Non-Automotive Repair Services, Hotels and Lodging	1,104	1,016	994	1,014	889	849	865
3	Ships and Boats	951	919	606	937	939	196	981
	Communications Services	762	160	751	758	785	837	21.6
	Computers	280	270	265	260	561	552	557
Ind	Indirect Defense Purchases Resulting from Direct Purchases							
	Research Labs, Computer and Engineering Services	3,337	3,274	3,295	3,320	3,306	3,366	3,472
	Non-Automotive Repair Services, Hotels and Lodging	1,007	941	937	950	814	910	944
	Real Estate	240	231	223	219	215	233	243
	Communications Services	160	157	158	160	160	167	181
	Wholesale Trade	159	153	154	157	156	159	165

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	1997	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES					
Total Direct Expenditures (Purchases and Pay)	7,180	6,930	6,840	6,797	6,693	899'9	6,779	
Indirect Defense Purchases Resulting from Direct Purchases	3,096	3,033	3,090	3,131	3,121	3,195	3,324	
Indirect Defense Purchases Resulting from Direct Pay	1,991	1,928	1,882	1,870	1,850	1,838	1,876	
Total Nondefense Expenditures	293,637	298,424	304,522	311,615	317,137	322,735	328,763	
Total Output	305,914	310,324	316,341	323,422	328,810	334,445	340,753	
Government Compensation: Pay, Military + Civilian	4,286	4,190	4,146	4,124	4,088	4,060	4,102	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS	,			
Total Direct Expenditures (Purchases and Pay)								
Research Labs, Computer and Engineering Services	919	290	579	571	577	583	601	
Aerospace 5	452	424	432	438	454	469	485	
Communications Equipment and Electronic Components	309	299	296	287	284	288	299	
Construction	251	234	223	219	218	220	219	
Petroleum Refining Excluding Fuel Oil	240	231	227	229	215	197	206	
Indirect Defense Purchases Resulting from Direct Purchases								
Aerospace	1,001	1,013	1,066	1,089	1,111	1,139	1,184	
Research Labs, Computer and Engineering Services	445	430	433	440	445	461	484	
Wholesale Trade	174	168	169	172	171	175	182	
Petroleum Refining Excluding Fuel Oil	116	113	112	112	105	101	106	
Other Nonferrous Metals	114	107	108	110	112	115	119	

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	Rounded to Mi	Rounded to Millions of 1999 dollars	COLLOIL				
	1997	1998	1999	2000	2001	2002	2003
	AGGREG/	AGGREGATE MEASURES	æ				
Total Direct Expenditures (Purchases and Pay)	431	414	406	403	393	393	395
Indirect Defense Purchases Resulting from Direct Purchases	612	585	583	586	576	585	604
Indirect Defense Purchases Resulting from Direct Pay	271	261	254	251	248	245	250
Total Nondefense Expenditures	75,230	76,131	77,328	79,034	80,309	81,680	83,121
Total Output	76,544	77,391	78,571	80,274	81,526	82,902	84,370
Government Compensation: Pay, Military + Civilian	273	269	267	266	264	262	264
LARG	RGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Construction	69	63	59	28	57	28	28
Medical Instruments and Supplies	22	20	19	19	14	17	17
	15	15	14	14	13	13	13
Wholesale Trade	12	11	11	11	11	10	10
Aerospace	10	6	∞	<b>∞</b>	•	<b>∞</b>	∞
Indirect Defense Purchases Resulting from Direct Purchases							
Coal Mining	84	80	80	80	80	80	81
Other Chemicals	80	92	75	75	74	75	78
Ferrous Metals	73	89	89	69	69	71	71
Other Nonferrous Metals	41	39	39	40	41	43	4
Wholesale Trade	35	. 33	33	34	33	34	35

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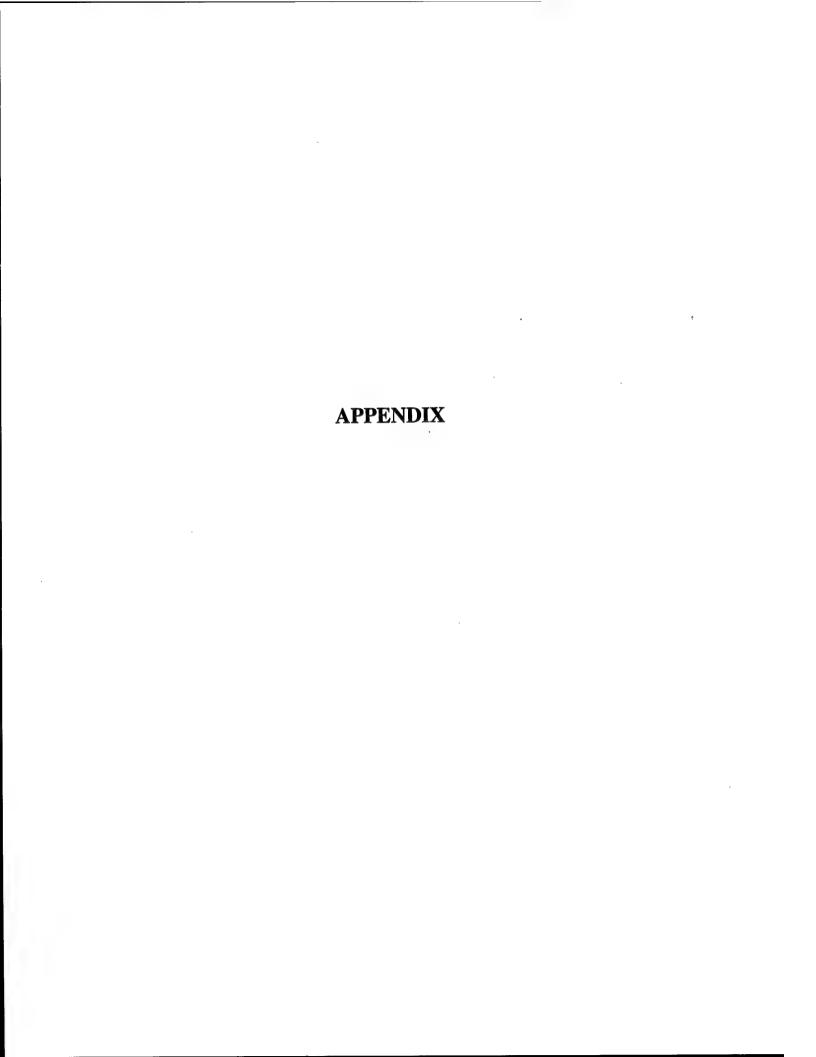
			Common				
	1997	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	1,104	1,051	1,044	1,036	1,007	886	985
Indirect Defense Purchases Resulting from Direct Purchases	1,928	1,844	1,844	1,857	1,827	1,864	1,925
Indirect Defense Purchases Resulting from Direct Pay	772	749	731	727	722	718	733
Total Nondefense Expenditures	289,548	292,149	297,419	305,211	310,510	316,110	321,798
Total Output	293,354	295,795	301,039	308,833	314,068	319,682	325,444
Government Compensation: Pay, Military + Civilian	468	460	456	454	450	447	451
LARG	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
	80	78	79	80	81	81	81
Research Labs, Computer and Engineering Services	64	62	61	09	59	59	59
Metalworking Machinery	63	56	61	59	54	43	31
Construction	53	48	46	45	4	45	45
Other Nonelectrical Machinery	39	38	38	38	37	36	37
Indirect Defense Purchases Resulting from Direct Purchases							
Metal Products	183	175	177	180	181	185	190
Wholesale Trade	158	152	153	155	154	157	164
Paper	141	134	133	131	128	129	134
Finance and Insurance	121	116	116	116	112	115	120
Printing and Publishing	104	100	100	100	86	66	102

Summary	にはつけるから
Wyoming Sum	Rounded to Millions of 1999 dollars

	TYPE TO TATITAT	TOTAL TO COMPANY					
	1997	1998	1999	2000	2001	2002	2003
	AGGREG/	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	343	336	332	332	327	323	327
Indirect Defense Purchases Resulting from Direct Purchases	267	257	255	255	244	243	253
Indirect Defense Purchases Resulting from Direct Pay	149	145	141	140	138	137	140
Total Nondefense Expenditures	23,462	23,883	24,194	24,704	25,066	25,486	25,921
Total Output	24,222	24,620	24,922	25,431	25,776	26,189	26,641
Government Compensation: Pay, Military + Civilian	249	245	244	243	242	241	242
LARGE	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Petroleum Refining Excluding Fuel Oil	24	23	23	23	22	20	21
	24	23	22	22	22	22	22
	22	21	21	21	20	18	19
Research Labs. Computer and Engineering Services	9	5	5	5	5	5	5
Electric Utilities	\$	\$	5	5	5	5	S
Indirect Defense Purchases Resulting from Direct Purchases							
Cride Petroleum	73	70	69	89	64	61	65
Petroleum Refining Excluding Fuel Oil	43	41	41	41	38	37	38
Coal Mining	21	21	21	21	21	21	22
Wholesale Trade	10	6	6	6	6	10	10
Nonmetallic Mining	6	∞	œ	00	00	<b>∞</b>	<b>∞</b>

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	1997	1998	1999	2000	2001	2002	2003	
	AGGRE	AGGREGATE MEASURES	URES					
Total Direct Expenditures (Purchases and Pay)	266,038	256,373	254,207	253,370	249,897	251,389	256,970	
Indurect Detense Purchases Resulting from Direct Purchases	130,846	126,071	126,452	127,362	125,324	128,058	133,087	
Indirect Detense Purchases Resulting from Direct Pay	67,154	64,957	63,286	62,784	62,097	61,627	62,863	
1 otal Nondetense Expenditures	13,704,205	13,890,347	14,148,625	14,492,186	14,744,684	15,013,977	15,293,739	
Total Cumpur	14,168,243	14,337,748	14,592,571	14,935,702	15,182,003	15,455,051	15,746,658	
Government Compensation: Pay, Military + Civilian	112,874	110,276	109,073	108,454	107,459	106,671	107,835	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	STRIAL SEC	FORS				
Total Direct Expenditures (Purchases and Pay)								
	35,444	34,053	33,468	32,661	32,536	32,633	33.329	
Aerospace 8	31,613	29,755	30,197	30,455	31,370	32,259	33,317	
Communications Equipment and Electronic Components	7,921	7,680	7,607	7,457	7,458	7,518	7,766	
Construction	8,007	7,496	7,188	7,056	7,033	7,093	7,082	
Ships and boats	7,371	7,119	7,057	7,355	7,384	7,645	7,758	
Indirect Defense Purchases Resulting from Direct Purchases								
Research Labs, Computer and Engineering Services	25,587	24,843	24,992	25,157	25,087	25,787	26.824	
Communications Equipment and Electronic Components	7,501	7,417	7,601	7,761	8,013	8,326	8,834	
Wholesale Trade	7,693	7,395	7,431	7,528	7,458	7,616	7,901	
Acrospace	6,035	5,914	6,110	6,172	6,254	6,370	6,563	
rinance and insurance	5,630	5,425	5,430	5,468	5,277	5,437	5,661	



### National

nd #	Industry Title	Ind#	Industrial Sector Title	
1	Dairy Farm Products	1	Agriculture, Forestry, and Fisheries	
2	Poultry and Eggs	•	righteditate, 1 ofestly, and 1 islicites	
3	Meat Animals and Other Livestock			
4	Cotton			
5	Grains			
6	Tobacco			
7	Fruit, Vegetables, and Other Crops			
8	Forestry Products			
9	Fishery Products			
10	Agriculture, Forestry, and Fishery Services			
11	Iron Ores	2	Iron Ores	
12	Copper Ore	3	Nonferrous Metals Mining	
13	Other Nonferrous Ores		140illettous Metals Mining	
14	Coal Mining	4	Coal Mining	
15	Natural Gas Extraction	5	Natural Gas	
16	Crude Oil Extraction			
		6	Crude Oil	
17 18	Stone and Clay Quarrying and Mining Chemical and Fertilizer Minerals Mining	7	Nonmetallic Mining	
19	New Construction	8	Construction	
20	Maintenance Construction		oonst dodon	
21	Guided Missiles and Space Vehicles	44	Aerospace	
22	Ammunition, Except Small Arms	28	Metal Products	
23	Tanks and Tank Components	46	Other Transportation Equipment	
24	Small Arms	28	Metal Products	
25	Small Arms Ammunition		Mount Products	
26	Other Ordnance and Accessories			
27	Meat Packing Plants, Sausage and Other Prepared Meats	9	Food and Tobacco	
28	Poultry Slaughtering and Processing	_		
29	Dairy Products, Except Fluid Milk			
10	Fluid Milk			
31	Fish and Seafoods			
32	Preserved Fruits and Vegetables, Frozen Bakery Products			
3	Flour, Cereals, and Other Grain Mill Products			
4	Prepared Animal Feeds			
5	Rice Milling			
6	Wet Corn Milling			
7	Bakery Products			
8	Sugar			
19	Confectionery, Chocolate Products, and Roasted Nuts			
0	Beer, Malt Beverages, and Malt			
1	Wines, Brandy, and Brandy Spirits			
2	Distilled and Blended Liquors			
13	Soft Drinks and Flavorings			
14	Vegetable Oil Mills			

### National

Ind#	Industry Title	Ind#	Industrial Sector Title
45	Animal and Marine Fats and Oils	9	Food and Tobacco (cont.)
46	Shortening, Table Oils, and Edible Fats		
47	Roasted Coffee		
48	Miscellaneous Food Preparations		
49	Cigarettes		
50	Cigars		
51	Chewing and Smoking Tobacco and Snuff		
52	Tobacco Stemming and Redrying		
53	Broadwoven Fabric Mills	10	Textiles (Except Knitting)
54	Narrow Fabric Mills		
55	Yarn and Thread Mills, Textile Finishers		
56	Carpets and Rugs Miscellaneous Textile Goods		
57	Miscellaneous Textile Goods		
58	Knitting Mills	11	Knitting
59	Apparel	12	Apparel and Household Textiles
60	Household Textile Products		
61	Miscellaneous Fabricated Textile Products		•
62	Logging Camps and Contractors	22	Lumber
63	Sawmills and Planing Mills		
64	Millwork and Wood Kitchen Cabinets		
65	Veneer and Plywood		
66	Structural Wood Members, n.e.c.		
67 68	Prefabricated Wood Buildings and Components Wood Preserving		
69	Wood Pallets and Skids		
70	Wood Containers		
71	Particleboard and Wood Products, n.e.c.	13	Paper
72	Household Furniture	23	Furniture
73	Office Furniture		
74	Public Building and Related Furniture		
75	Partitions and Fixtures		
76	Furniture and Fixtures, n.e.c.		
77	Pulp Mills	13	Paper
78 70	Paper Mills, Including Building Paper		•
79	Paperboard Mills Bags, Except Textile Bags		
80 81	Paperboard Containers and Boxes		
82	Paper Coating and Glazing, Die Cut Paper		
83	Envelopes and Stationery		
84	Converted Paper Products, n.e.c.		
85	Sanitary Paper Products		
86	Newspaper Publishing and Printing	14	Printing and Publishing
87	Periodical Publishing and Printing		-
88	Book Publishing and Printing		
89	Miscellaneous Publishing		
90	Commercial Printing		
91	Greeting Card Publishing		
92	Printing Trade Services		
93	Blankbooks and Bookbinding		
94	Manifold Business Forms		

### National

Ind #	Industry Title	Ind#	Industrial Sector Title
95	Industrial Inorganic Chemicals	16	Other Chemicals
96	Industrial Organic Chemicals		Other Chemicals
97	Gum and Wood Chemicals		
98	Agricultural Chemicals	15	Agricultural Fertilizers
99	Adhesives and Sealants	16	Other Chemicals
100	Explosives		
101	Chemical Preparations, n.e.c.		
102	Plastics Materials and Resins		
103	Synthetic Rubber		
104	Cellulosic Man-Made Fibers		
105	Synthetic Organic Fibers, Except Cellulosic		
106	Drugs	79	Drugs
107	Soaps and Cleaners		
108	Perfumes, Cosmetics, and Other Toilet Preparations	16	Other Chemicals
109	Paints, Varnishes, and Related Products		
110	Petroleum Refining, Except Fuel Oil	17	Petroleum Refining
111	Fuel Oil	18	Fuel Oil
112	Asphalt Paving and Coatings	17	Petroleum Refining
113	Tires and Inner Tubes	19	Rubber Products
114	Fabricated Rubber Products, n.e.c.		1100011100000
115	Rubber and Plastics Footwear		
116	Rubber and Plastics Hose and Belting		
117			
118	Miscellaneous Plastic Products	20	Plastic Products
119	Leather Tanning and Finishing	21	Shoes and Leather
120	Boot and Shoe Cut Stock and Findings		Shoes and Leanier
121	Footwear, Except Rubber		
122	Other Leather Goods		
123	Glass and Glass Products, n.e.c.	24	Stone, Clay, and Glass
124	Glass Containers		
125	Cement, Hydraulic		
126	Structural Clay Products		
127	Pottery and Related Products		
28	Concrete and Concrete Products		
29	Lime		
130	Gypsum Products		
31	Cut Stone and Stone Products		
32	Nonmetallic Mineral Products, n.e.c.		
133	Steel Mills, Blast Furnaces, and Rolling and Finishing Mills	25	Ferrous Metals
134	Iron and Steel Foundries		
135	Iron and Steel Forgings		
136	Miscellaneous Primary Metal Products		

## National

Ind#	Industry Title	Ind#	Industrial Sector Title
138 139	Primary Smelting and Refining of Aluminum Lead, Zinc, and Other Primary Nonferrous Metals	27	Other Nonferrous Metals
140	Copper Rolling and Drawing	26	Copper
141	Aluminum Rolling and Drawing	27	Other Nonferrous Metals
142	Other Nonferrous Rolling and Drawing, and Nonferrous Wire		
143	Aluminum Foundries and Castings		
144	Copper Foundries	26	Copper
145	Nonferrous Castings and Forgings	27	Other Nonferrous Metals
146	Metal Cans	28	Metal Products
147	Metal Shipping Barrels, Drums, Kegs, and Pails		
148	Metal Sanitary Ware and Plumbing Fixtures	•	
149	Heating Equipment, Except Electrical and Warm Air Furnaces		
150	Fabricated Structural Metal Products		
151	Fabricated Plate Work (Boiler Shops)		
152	Sheet Metal and Other Metal Work		
153	Screw Machine Products, Bolts and Nuts		
154	Automotive Stampings		•
155	Crowns and Closures		
156	Metal Stampings, n.e.c.		
157	Cutlery and Hand Tools		
158	Hardware, n.e.c.		
159	Metal Plating, Polishing, and Coating		
160	Metal Foil and Leaf		
161	Miscellaneous Fabricated Wire Products		
162	Steel Springs, Except Wire		
163 164	Pipes, Valves, and Pipe Fittings Fabricated Metal Products, n.e.c.		
165 166	Steam, Gas, and Hydraulic Turbines Internal Combustion Engines, n.e.c.	29	Engines and Turbines
167 168	Farm Machinery and Equipment Garden Tractors and Lawn and Garden Equipment	30	Agricultural Machinery
160	Construction Machinery and Equipment	31	Construction, Mining, and Oil Field Equipment
169 170	Mining Machinery and Equipment, Except Oil and Gas Machinery		,
171	Oil and Gas Field Machinery		
172	Elevators and Moving Stairways	34	Other Nonelectrical Machinery
173	Conveyers, Hoists, and Cranes Industrial Trucks, Tractors, Trailers, and Stackers		
174		22	Mataluarina Mashinan
175	Machine Tools, Metal Cutting Types	32	Metalworking Machinery
176	Machine Tools, Metal Forming Types		
177	Special Dies, Jigs, Molds, and Cutting Tools		
178	Power-Driven Hand Tools		
179	Rolling Mill Machinery and Equipment		
180	Metalworking Machinery, n.e.c.		

### National

Ind#	Industry Title	Ind#	Industrial Sector Title
181 182 183 184 185 186	Food Products Machinery Textile Machinery Woodworking Machinery Paper Industries Machinery Printing Trades Machinery and Equipment Special Industrial Machinery, n.e.c.	33	Special Industry Machinery
187 188 189 190 191 192 193 194 195	Pumps and Compressors Ball and Roller Bearings Blowers and Exhaust and Ventilation Fans Industrial Patterns Packaging Machinery and General Industrial Machinery, n.e.c. Mechanical Power Transmission Equipment Industrial Process Furnaces and Ovens Carburetors, Pistons, Piston Rings, and Valves Fluid Power Equipment	34	Other Nonelectrical Machinery
196	Scales and Balances	36	Other Office Equipment
197	Industrial and Commercial Machinery, n.e.c.	34	Other Nonelectrical Machinery
198 199 200	Electronic Computers Computer Peripheral Equipment Calculators and Accounting Machinery	35	Computers
201	Office Machines and Typewriters	36	Other Office Equipment
202 203 204 205 206	Automatic Merchandising Equipment Commercial Laundry, Dry Cleaning, and Pressing Machines Air Conditioning, Heating, and Refrigeration Equipment Measuring and Dispensing Pumps Service Industry Machinery, n.e.c.	37	Service Industry Machinery
207 208 209	Instruments to Measure Electricity  Transformers Switchgear and Switchboard Apparatus	39	Electric Industrial Appliances and Distribution Equipment
210 211 212 213	Motors and Generators Relays and Industrial Controls Welding and Soldering Equipment Electrical Industrial Apparatus		
214 215	Major Household Appliances Other Household Appliances	40	Household Appliances
216	Electric Lamps, Light Fixtures, and Wiring	41	Other Electrical Equipment
	Household Audio and Video Equipment Prerecorded Records and Tapes	42	TV Sets, Radios, and Phonographs
219	Telephones, Switchboards, Modems, Faxes, Etc.	38	Communications Equipment and Electronic
	Radio and TV Broadcasting and Communication Equipment Electron Tubes		Components

#### National

Ind#	Industry Title	Ind#	Industrial Sector Title
222	Semiconductors and Related Devices	38	Communications Equipment and Electronic Components (cont.)
223	Electronic Components, n.e.c.		
224	Storage Batteries	41	Other Electrical Equipment
225	Primary Batteries, Dry and Wet		
226	X-ray and Irradiation Apparatus		
227	Electromedical and Electrotherapeutic Apparatus		
228	Engine Electrical Equipment		
229	Magnetic and Optical Recording Media		
230	Electrical Machinery, Equipment and Supplies, n.e.c.		
231	Truck and Bus Bodies	43	Motor Vehicles
232	Truck Trailers		
233	Motor Vehicles and Passenger Car Bodies		
234	Motor Vehicle Parts and Accessories		
235	Aircraft	44	Aerospace
236	Aircraft and Missile Engines, Propulsion Units and Parts		
237	Aircraft and Missile Parts and Auxiliary Equipment, n.e.c.		
238	Shipbuilding and Repairing	45	Ships and Boats
239	Boat Building and Repairing		
240	Railroad Equipment	46	Other Transportation Equipment
241	Motorcycles, Bicycles, and Parts		
242	Travel Trailers and Campers		
243	Mobile Homes	22	Lumber
244	Motor Homes	43	Motor Vehicles
245	Transportation Equipment, n.e.c.	46	Other Transportation Equipment
246	Search and Navigation Equipment	47	Instruments
247	Laboratory Apparatus and Furniture		
248	Measuring Devices and Environmental Controls		
249	Surgical and Medical Instruments	80	Medical Instruments and Supplies
250	Surgical Appliances and Supplies		
251	Dental Equipment and Supplies		
252	Watches, Clocks, Clockwork Operated Devices and Parts	47	Instruments
253	Laboratory and Optical Instruments		
254	Ophthalmic Goods	81	Ophthalmic Goods
255	Photographic Equipment and Supplies	47	Instruments
256	Jewelry, Precious Metal, Silverware, and Plated Wares	48	Other Manufacturing
257	Musical Instruments		
258	Games, Toys, and Play Vehicles		
259	Sport and Athletic Goods, n.e.c.		
260	Pens, Pencils, and Other Office and Artists' Materials		
261	Costume Jewelry and Notions		

### National

Ind#	Industry Title	T. 1.4	T 1 4 1 1 G
262	Industry Title	Ind#	Industrial Sector Title
202	Manufacturing, n.e.c.	48	Other Manufacturing (cont.)
263	Railroads	49	Railroads
264 265	Local and Suburban Passenger Transportation Trucking and Warehousing	50	Trucking and Highway Passenger Transit
266	Water Transportation	51	Water Transportation
267	Airlines	52	Air Transportation
268	Pipelines	53	Pipeline
269	Transportation Services	54	Transportation Services
270 271	Telephone and Telegraph Radio and TV Broadcasting	55	Communications Services
272	Electric Utilities	56	Electric Utilities
273	Natural Gas	57	Gas Utilities
274	Water, Sewer, Steam, and Irrigation Services	58	Water and Sanitation
275	Wholesale Trade	59	Wholesale Trade
276	Retail Trade	60	Retail Trade
277	Eating and Drinking Places	61	Eating and Drinking Places
278	Banking	62	Finance and Insurance
279	Credit Agencies Other Than Banks	02	r-mance and hisurance
280	Security and Commodity Brokers, Dealers, Exchanges, and Services		
281	Insurance Carriers		
282	Insurance Agents, Brokers, and Services		
283	Owner-Occupied Dwellings	64	Owner-Occupied Housing
284	Real Estate	63	Real Estate
285	Royalties	05	Note Listate
286	Hotels, Rooming Houses, Camps, and Other Lodging Places	65	Nonautomotive Repair Services, Hotels, and Lodging
287	Personal and Repair Services		Longing
288	Personnel Supply Services	66	Research Labs, Computer and Engineering Services
289	Computer and Data Processing Services		DELVICES
	Research Laboratories and Management Consulting		
	Equipment Rental and Leasing Services		
	Advertising		
293	Other Business Services		
	Legal Services		
	Engineering and Architectural Services		
	Other Professional Services, Including Accounting		

#### National

Ind#	Industry Title	Ind#	Industrial Sector Title
297	Auto Rental and Leasing	67	Automobile Repairs
298	Auto Repair and Services		
299	Motion Pictures	68	Movies and Amusements
300	Video Tape Rental		
301	Amusements and Recreation Services		
302	Private Hospitals	82	Private Hospitals
303	Physicians, Excluding Dentists	83	Physicians
304	Dentists and Miscellaneous Medical Services	84	Other Medical Services
305	Nursing Homes	85	Nursing Homes
306	Education and Libraries	69	Education and Nonprofit Organizations
307	Social Services		
308	Museums, Nonprofits, Research, and Private Education		
309	Membership Organizations		
310	United States Postal Service	70	Federal, State, and Local Government Enterprises
311	Federal Government Enterprises		•
312	State and Local Government Enterprises		
317	Government Industry Compensation	76	Government Industry Compensation

#### FEEDBACK FORM

Did the	projections for your industry or state seem to be reasonab	le?				
	Are there other published forecasts with which the projections for your industry or state					
	10					
can be o	compared?					
can be o	compared?					
can be c	compared?					
can be d	compared?					
can be d	compared?					
can be c						
		LEAST				
What pa	arts of the projections were most and least useful to you?					
What pa	Projected direct defense purchases for an industry					
What pa	Projected direct defense purchases for an industry					
What pa	Projected direct defense purchases for an industry Projected indirect defense purchases for an industry Projected direct defense purchases for a state					
What pa	Projected direct defense purchases for an industry Projected indirect defense purchases for an industry Projected direct defense expenditures for a state Projected indirect defense expenditures for a state					
What pa	Projected direct defense purchases for an industry Projected indirect defense purchases for an industry Projected direct defense purchases for a state					

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